April 1990

DX ONTARIO

MONITORING THE WORLD VIA RADIO SINCE 1975

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Let Us Introduce You To The

ONTARIO DX ASSOCIATION

The **Ontario DX Association** (ODXA) is a club of shortwave listeners and DX enthusiasts who live in the province of Ontario. We are incorporated under the laws of the Province of Ontario.The ODXA was organized in late 1974, after a need was expressed for a club that would concentrate on organizing local radio listeners, holding meetings and publishing a regular bulletin that would contain listening tips from listeners in this province. People wanted to look in the bulletin and find out what other Ontario listeners were hearing and doing.

DX ONTARIO is written and produced by a staff of volunteers. Contributions to DX ONTARIO columns are most welcome and should be sent to the editor of the particular column. Loggings used in the magazine must be from Ontario, but any other contributions are welcome from outside the province. Let us now introduce you to the columns of our magazine.

FROM HQ, as the first section of the magazine, is an introduction of new members, an events calendar, for sale items, publication news, members' letters and profiles, as well as technical subjects, such as receivers and antenna topics. It is compiled by club chairman, Harold Sellers.

In the centre pages, ***DX and SHORTWAVE HOBBY PROGRAMMES*** gives you a guide to where and when to find programmes devoted to our hobby. ***WORLD ENGLISH SURVEY*** is a quick reference guide to an up-to-date selection of English transmissions. ***USA ENGLISH SURVEY*** tells you where and when to find the numerous broadcasters of the United States and ***BBC WORLD SERVICE*** gives you our recommendations for tuning in the BBC. Andy Reid and Ivan Grishin edit these sections.

LISTENING IN, under the editorship of Fred Waterer, presents and discusses the programmes we listen to on shortwave. The presenters of these programmes and the stations they speak from are also topics of this column. ***PROGRAM CALENDAR*** gives advance tips on particular programmes to be aired in the coming month.

WORLD RADIO REPORT's David Clark keeps us informed of the changes made by broadcasters to their operating schedules, such as new transmission times, changes in frequencies or languages used. New stations and news from existing stations are also covered.

TROPICAL LOGGINGS is designated for the ongoing survey of broadcasting stations between 2000 and 5900 kHz, wherein are found the Tropical Broadcast Bands. The contents are reports of stations heard recently by our members and sent in to editor Tom Williamson.

INTERNATIONAL LOGGINGS is where you can find out what Ontario listeners have been hearing on the international shortwave bands, 49 thru 11 meters (5900 to 30000 kHz essentially), during recent weeks. It's a showcase of listening results and also tuning suggestions for others, compiled by Al Gastle.

QSL ALBUM is dedicated to the very popular aspect of the radio hobby of collecting verification cards and letters (commonly known as QSLs). John Fisher presents reports from our members who have received QSLs from shortwave stations.

DOMESTIC BROADCAST keeps you up-to-date on the North American broadcasting scene - mediumwave, FM and television. Besides news, Morris Sorensen presents listings of receptions made by members and reported to the column.

MEDIUMWAVE INTERNATIONAL editor Werner Funkenhauser shows us that the AM broadcast band is not only the home of thousands of U.S. and Canadian stations, but many broadcasts from other countries may also be received here. This column tells you what has been heard in Ontario and gives you reception tips.

MONITORING SERVICES covers the subject of utility stations; a utility station being a non-broadcast station, which is not directing its transmission to the general public. David Ross lists receptions made by members between 1.6 and 30 MHz of stations using voice, CW, radioteletype and facsimile.

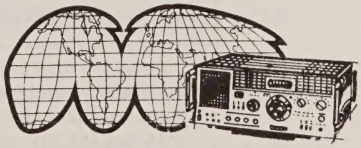
Articles are always welcomed by the DX ONTARIO staff. You may write an article on any topic and submit it either to club headquarters or one of the column editors. The article can be basic or advanced, short or long. ***Pictures and Profiles*** from members are very welcome. Introduce yourself to the club membership and let us also see you. Send these items to club headquarters.

The DX-Change is our telephone answering service, by which you can hear hobby information, club news and DX tips. You can also leave your own news and tips on the tape. John Grimley prepares two tapes of news and information each week. The telephone number is (416)299-ODXA.

DXO on Tape is a recorded version of the DX ONTARIO bulletin for sight-impaired members. Joe Robinson records the monthly magazine onto cassette and these are supplied to members in place of the printed bulletin.

Finally, we have many meetings and events throughout the year. You'll find these listed in the Calendar section of FROM HQ.

This is a brief look at DX ONTARIO and the ODXA. We hope you've found it useful. ❐



Monitoring the World Via Radio Since 1975

Application for Membership in the

ONTARIO DX ASSOCIATION

(incorporated under the laws of Ontario)

P.O. Box 161, Station A, Willowdale, Ontario M2N 5S8, Canada

NAME _____ TELEPHONE _____

ADDRESS _____

CITY _____ POSTAL CODE/ZIP _____

The following information is optional.

Occupation _____ Date of Birth _____

May we list your name and address in our Membership Directory? _____

Please list your main interests in the hobby (eg. Mediumwave DX, Tropical Bands, International Shortwave Bands, RTTY, etc.) _____

_____

Years of involvement in the hobby? _____

How did you learn of the ODXA? _____

Other SWL/DX clubs of which you are a member _____

What equipment do you use in the hobby? _____

_____

Where did you purchase your last receiver? _____

Please list any personal computer you use _____

Please provide your callsign if you are a licensed radio amateur _____

I would like information on the Ontario DX Association sent to the following friend(s):

_____

Membership Dues

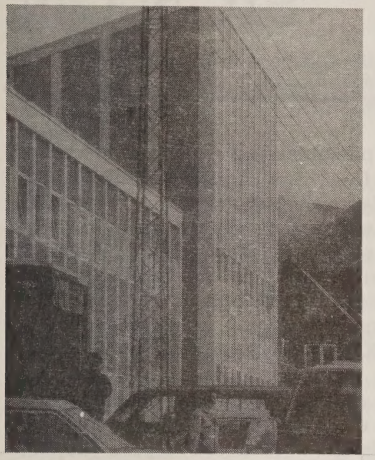
Please check boxes below.	Canada (C$)	U.S.A. (US$)	Overseas (C$ and US$)
❒ 1 year	$28.75	$26.00	C$41.00/US$34.00
❒ 2 years	$52.00	$47.00	not available
❒ 3 years	$80.00	$72.00	not available
Send DX ONTARIO as ❑ a magazine or ❑ on tape.			

Make cheques and money orders payable to "Ontario DX Association".
Payment may be made in Canadian or U.S. dollars.
Mail completed application to either:
P.O. Box 161, Station A, Willowdale, Ontario M2N 5S8
or

4/90

THIS MONTH'S COVER

At the end of 1989 Greenland shut down their one small shortwave transmitter on 3999 kHz. K.N.R. is pictured on our cover. See World Radio Report too.



DX ONTARIO

MONITORING THE WORLD VIA RADIO SINCE 1975

APRIL 1990 VOLUME 16 EDITION 177

15 years of service to Ontario SWLs/DXers

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QSL Album : *John Fisher*

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DXO on Tape : *Joe Robinson*
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VE3ODX Club Amateur Radio Station
The Ontario DX Association holds amateur radio license VE3ODX. Stephen Canney VE3FQ is the station manager.

For DX tips and Hobby News, call :
DX-CHANGE (416)299-ODXA

To discuss your membership or club services, contact the
CLUB ANSWERLINE (416)853-3169

Harold Sellers
101 Rutledge Avenue
Newmarket, Ontario
L3Y 5T5 CompuServe 73737,3453

SIGN ON

1975 - 1990 Fifteen Years!

Welcome to another issue of DX ONTARIO. Many of you have contributed to this being a particularly informative article. That, combined with the many historic events taking place in our world in the past year, makes DX ONTARIO great reading.

Mediumwave International is missing from this issue due to the hard disk on Werner's computer crashing at the last minute. We know the feeling Werner, the club's Apple Macintosh had to have its hard disk replaced recently. We'll look forward to having Mediumwave International back in May.

It was a pleasure to meet many ODXers at our 15th Birthday Party last month. Approximately fifty members and prospective members dropped by the 400/401 Ramada Inn to say hello, look over the exhibits of club supplies, have some birthday cake and try to win some of the numerous raffle prizes. I would personally like to thank Cindy Ellen Morgan and Steve Canney, who were the organizers behind the day. I think that all who attended had a good time.

At the party I received a special surprise gift from the club executive - a set of personalized license plates for my car. They read "ODXA 1". So watch for a red Toyota bearing this handle and give me a wave!

In the next few pages we have a few photos from recent club activities. Included is one or two shots from the Winter SWL Festival held near Philadelphia in late February. This was a very enjoyable weekend attended by a good number of ODXers. Three cars made the trip from the Toronto area and we met many of our associate members at the Festival. Attendance was approximately 150 and many interesting forums and presentations were on the agenda. We had an exhibit at which we introduced the ODXA to attendees and sold a number of our club supplies.

In the centre of this issue is a pullout information pamphlet and registration form for the next DX Camp at Longford Mills. We hope many of you will join us for a fun weekend of DXing, antenna experimentation, socializing and sharing of DX experience. You don't need fancy equipment to attend; we have everything from small portables to old, tube monsters. Bring your radio, an antenna, some DXing references and enjoy yourself!

Toronto area members should take special note of the tour planned for the Wardair (PWA) Hanger at Toronto's Airport. This has recently been organized and so hasn't been listed here before.

Take a look at "Calendar" this month and you'll be struck by the large number of activities going on these next few months. We hope to meet many members at these events. If you attend a ham fleamarket where we are exhibiting, please be sure to say hello. You are welcome to pick up some club supplies or pay your membership renewal at any of these events too.

The ODXA's amateur radio station, VE3ODX, has been very active on the air of late. Station manager Steve Canney VE3FQ tells us that he has worked a number of stations, including some ODXA members, Chuck Roswell PJ4CR of Trans World Radio Bonaire and VR6JR on Pitcairn Island. Quite a few of our special certificates have been sent out. Anyone hearing or working VE3ODX is eligible

continued on page 3

ODXA Stats as of February 28, 1989

Number of Ontario Members	= 759
Reporting Members in February	= 41
% of Total Members	= 5.4%
Reporting Members for 1990	= 64
Number of Associate Members	= 290
Total Membership	= 1049
February DXO's Printed	= 1500
March DXO Mailed	= Feb.28

for a certificate. Check out the special announcement in this issue, which we are repeating from last month.

The Board of Directors election is still underway as this is written. In the May edition we will announce and introduce the 1990-1992 Board to you.

Remember we are still looking for additional Local Representatives to list in the adjacent box. The new features of "Collector's Corner" and "S.I.G.N.A.L." are available for you to list your interests.

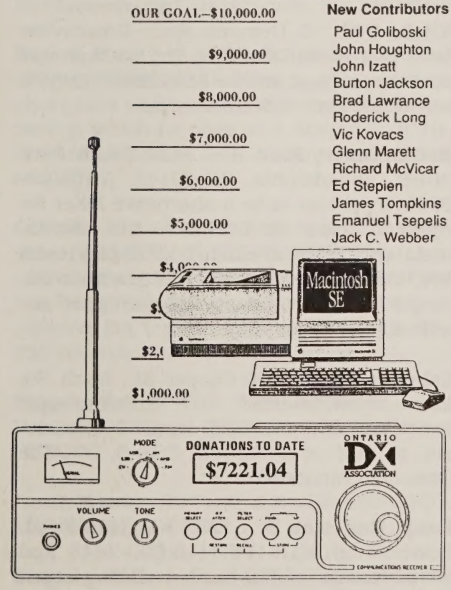
If you've got an idea or suggestion for us, or would like to offer your services in any way, drop a line to me here at club HQ and we'll gladly consider your comments. Good listening!

73 and God Bless,

Harold Sellers

Keep DXO On Top Fund

We need your help. The Ontario DX Association, after several months' of fund-raising, last year purchased an Apple Macintosh-based Desktop Publishing System. Use of DTP is bringing you an even better product each month and will keep the ODXA on top technologically. DTP will help us make a number of improvements to the magazine and aid in the time-consuming process of designing the magazine. Please consider helping the ODXA to stay on top and send your donations - large or small - to Box 161, Station A, Willowdale M2N 5S8. Please mark your contribution for DTP. Thanks.



New Contributors

Paul Goliboski
John Houghton
John Izatt
Burton Jackson
Brad Lawrance
Roderick Long
Vic Kovacs
Glenn Marett
Richard McVicar
Ed Stepien
James Tompkins
Emanuel Tsepelis
Jack C. Webber

Local Representatives

he following members have agreed to serve as local contacts for ODXA members. They would be pleased to speak with anyone with a question or comment.

Cornwall	Jacques d'Avignon	936-5709
Guelph	Tom Williamson	836-5586
Hamilton	David Ross	389-2851
Kawarthas	David Shearman	652-7138
Kingston	John Fisher	389-3070
Kitchener-Waterloo	John Lindsay	634-8480
London	Robert Ross	685-1167
Muskoka	Terry Ferguson	687-2274
Newmarket	Harold Sellers	853-3518
Niagara	Mike Krebs	356-4010
Ottawa	Bernie O'Shea	829-0266
Sudbury	Al Chiswell	855-3798
Thunder Bay	Bill Butuk	623-2136
Toronto	Stephen Canney	222-9658
	John Grimley	299-4281

Meetings - When, Where and Who

Gravenhurst - DX weekend twice per year, Spring and Fall - next gathering April 6-8
Terry Ferguson (705)687-2274

London - last meeting was March 13
Robert Ross (519)685-167

Toronto - Monthly (2nd Wednesday Sept.-June) at Ontario Science Centre
Stephen Canney (416)222-9658
1990 dates : Apr.11, May 9, June 13, Sept.12, Oct.10

DX Camps - Longford Mills
May 19-21
October 6-8

New Members

Welcome to the following new ODXA members.

Assaf, Mark : 1655 Nash Rd., Box 52, Bowmanville L1E 1S8. Mark works as a horticulture nursery supervisor. He has been monitoring the shortwave broadcast bands for twenty-two years and presently has a Kenwood R-5000. (via a friend)

Bara, Dennis : 640 Woodfield Trails, Roselle, Illinois 60172-1058. Dennis is an electronics technician. He listens to shortwave broadcasts, hams and utility broadcasts on a Realistic DX-440. He resumed the hobby recently after having been away from it for a few years. (via RCI SWL Digest)

Brock, Sonia : 215 Torrens Ave., Toronto M4J 2P6.

Chiquoine, A. Duncan : 31 Norton Ave., Clinton, NY 13323. (315)353-2925. Duncan is retired and he has listened to the shortwave broadcast bands for twenty years. He has a Japan Radio NRD-525. Duncan is WB2KMC and he's a former member of the ODXA.

Curtis, B.A. : 2145 Dorr St., Toledo, OH 43607. (419)536-0545. Mr. Curtis is retired. He has been a shortwave DXer for 50 to 60 years and presently uses a Magnavox D-2935 and a Kenwood R-2000. (via a friend)

Duguay, Jean Marc : 300 Allee des Ursulines, Rimouski, Québec G5L 3A1. (418)723-4690. Jean Marc is a laboratory technician. He listens to shortwave and mediumwave broadcast DX on a Sony ICF-7601. He's been interested in the hobby for twenty-five years. (via Popular Electronics)

Fiander, David : 81 Gilroy Dr., Scarborough M1P 2A2. David has been monitoring the shortwave broadcast bands for a year. He uses a Sangean ATS-803A. (via Atlantic Ham Radio)

Frame, J.D. : 10 Redenda Cres., Nepean KG 0N6. (613)828-3101. Mr. Frame is a professional engineer. He has been listening to the international broadcast bands on and off for many years. His receiver is a Sangean ATS-803A. (via Ralph Cameron)

Goodman, Carolyn : P.O. Box 1375, Bradford L3Z 2B7. (416)836-5951. Carolyn is a school caretaker and she is a newcomer to our hobby, although she has been interested in radio for many years. She's looking for a radio presently. (via The Canadian Amateur)

Harany, Gary : 75 Alonna St., Bowmanville L1C 3P7. (416)623-9886. Gary is an instrument and control technician. He's a new shortwave listener and uses a Panasonic RF-B65 receiver. (via a friend)

Harrison, Paul : 674 College Ave.W., Guelph N1G 1T8. (519)821-1933. Paul is a teacher and he has been listening to shortwave broadcasts for nine years. His receiver is a Realistic DX-160. (via StarWeek article)

Keith, E.L. : RR # 3, Schomberg L0G 1T0. (416)939-7413.

Kinney, Patrick : 9603 Kinloch, Redford, MI 48239. (313)937-8311. Patrick is a technical writer/manager who has been monitoring the international shortwave bands for two years. He uses a Magnavox D-2935 receiver. (via Jim Meyer)

Klich, Ted : 2 Demaris Ave., Downsview M3N 1M1. (416)633-2254. Ted is a management consultant and he has been DXing for a year. He uses a Sony receiver.

Kohlbrenner, Fred S. : 1832 South 68th Street, Philadelphia, PA 19142. (215)729-0908. Fred has been a shortwave DXer for eighteen years. He listens to the international and Tropical bands on a Japan Radio NRD-525 and a Sony ICF-2010, with a Datong FL-3 filter and an Eavesdropper antenna. (via Winter SWL Fest)

Laberge, Fred : 760 Cooper St., Sault Ste Marie. (705)256-8680. Fred listens to most bands on Eddystone 830/4 and 770R receivers, as well as a Marconi CSR-5. (via The Canadian Amateur)

Long, Roderick S. : 1292 Kingston Road, Scarborough M1N 1P5. (416)690-2448. Rod is a technician and he has been DXing for ten

NEW MEMBERS continued :
years. His interests are shortwave broadcasts, utilities, weather fax and satellites. Rod is planning to get a Kenwood R-5000 receiver. (via CKO & Hobby Show)

Mainland, John : 30 Burrows Avenue, Karori, Wellington 6005, New Zealand. John is a Tropical bands DXer. He has been in the hobby for thirty years and is a member of the New Zealand Radio DX League and the Australian Radio DX Club. (via Swiss Radio International)

Martin, Dennis J. : 7640 S. Meridian, Indianapolis, Indiana 46217. (317)787-8526. Dennis has been DXing for seven years. He works in a family-owned electronics service business. He has a Sony ICF-2010 and AN-1 antenna, and also collects vintage radios from circa 1920-1950. His interests are SWBC, utilities, mediumwave and pirates. (via WRTH and DX Partyline)

Morley, Kenneth D. : Box 42, RR 1, Haliburton K0M 1S0. (705)754-2513. Ken listens to mediumwave and shortwave broadcasts on a Realistic DX-400. He is retired. (via StarWeek article)

Murray, Harold N. : 88 Duncairn Rd., Don Mills M3B 1E1. (416)444-8671. Harold is interested in mediumwave DX and uses a Realistic SX-190. He is retired. (via Sid Prior)

Nishri, Alex : 11 Lafferty St., Etobicoke M9C 5B5. (416)622-0341. Alex is interested in shortwave and mediumwave broadcast listening, which he does on a Sony ICF-2010. His work is in the field of computers. (via a retailer)

O'Neill, Jim : 294 Meadowcrest Rd., Kingston K7M 3S3. (613)549-4938. Jim is a retired newspaper and technical editor. He has been listening to shortwave and mediumwave DX for a year on a Panasonic RF-32F receiver. (via StarWeek article)

Piggot, Robert W. : 516 Crestwood Ave., North Vancouver, BC V7N 3C5. Robert s VE7CYU.

Reed, Randy : 69 Tenth Ave., Brantford N3S 1G3. (416)759-3417.

Singer, Robert O. : 2353 Sunset Lane, Greeley, CO 80631. Robert is a retired university professor. He has been in the hobby for four years and presently has a Kenwood R-5000 and a Sony ICF-2010. His interest is DXing the international broadcast bands. (via a friend)

Smith, Handel : 40 Nevada Crt., Brampton L6S 4Z3. (416)452-0124. Handel is a peace officer and he listens on a Collins R-390 and a Realistic DX-100. He's been an SWL for ten years. (via HCJB and Dave Ross and Bramalea Hamfest)

Storey, Chris : 30 Nevin Ave., Peterborough K9J 6E8. (705)748-5352. Chris has been tuning the shortwave, mediumwave and FM bands on a Realistic DX-440 for two months. He works as an assembler at General Motors. (via Sony Store, Peterborough)

Swanson, David B. : 135 Alcorn Ave., Toronto M4V 1E5. (416)924-8090. David is a medical laboratory technologist. He has been listening to shortwave for five years and uses a Panasonic RF-2200. (via WRTH)

Vamvouras, Dimitri : 200 Gateway Blvd., Apt.1212, Don Mills M3C 1B5. (416)424-1808. Dimitri is a power plant engineer and he has been DXing the shortwave broadcast bands for a year. He has a Kenwood R-5000 receiver. (via HCJB)

Vanderkaa, Martin : 19 Maryvale Cres., Richmond Hill L4C 6P6. (416)889-9450. (via Hobby Show)

Voros, Leslie : 41 Elmvale Cres., Port Colborne L3K 5X1. (416)834-0543. Leslie listens to the shortwave broadcast bands and ham bands. He has a Hallicrafters SX-130 and a Realistic DX-200. He is retired and has been an SWL for twenty years. (via Niagara Hamfest)

We also welcome **John A. Wallendar** and **Robert E. Watts**.

Change of Address :
John C. Beal, 185 Ontario St., Apt.1204, Kingston K7L 2Y7
Taber Bucknell, 2625 Regina St., Suite 1707, Ottawa K2B 5W8. (613)820-0434
Jacques d'Avignon, 459 Leitch Drive, Cornwall K6H 5P7. (613)936-5709 ●

Calendar

Highlights :

DXpeditions to Gravenhurst and Longford Mills
ODXA Fleamarket
Astronomer to Speak at Toronto Meeting

April 3 : Wardair (PWA) Hanger Tour at Toronto's Pearson International Airport. We will meet at the main lobby security desk just prior to 7:00 pm to begin the tour at 7:00. No children please due to safety reasons. Further details available from Stephen Canney at 222-9658, otherwise meet you there!

April 6-8 : Gravenhurst DXpedition to Terry Ferguson's Muskokan Motel. Everyone is welcome. Rides are often available from Toronto and there are bus and train connections to Gravenhurst. Contact Terry at (705)687-2274 to make arrangements. You are welcome to arrive on Friday or Saturday. Accomodations are at the motel for a low fee and meals are obtainable nearby. Bring your receiver and an antenna for a fun weekend of listening and socializing.

April 7 : Durham Region Amateur Radio and Computer Flea Market, Pickering High School, Church St., Pickering. 9:00 am, $4.00 admission.

April 11 : Toronto Area ODXA meeting at the Ontario Science Centre, south-west corner of Don Mills Road and Eglinton Avenue, Theatre B. Admission $3.00.

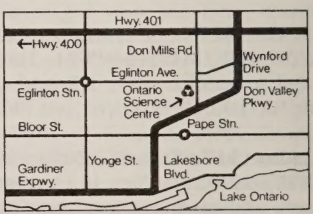
7:00 pm Newcomers Session - Newcomers to the hobby or to the ODXA can discuss any concerns they may have about the hobby.

7:30 pm - DX Camps : What is a DX Camp? What equipment is required, etc. With Longford Mills sneaking up on us in May, we will take a closer look at these bi-annual events sponsored by the ODXA. This will be followed by a half-hour break, refreshments served, club supplies for sale and time to socialize.

The Science Centre has promised to supply us with a VCR and TV this time so we plan to show some shortwave / amateur radio videos after the break.

April 28 : ODXA Flea Market, 1-5 pm, Kingston Road United Church, 975 Kingston Road, Scarborough (intersection of Scarborough and Kingston Roads, 3 blocks west of Victoria Park on south side). The flea market will be held in the large basement of the church. There is a separate entrance to the basement which is also wheelchair accessible. Parking is on surrounding streets. Admission $2.00. Refreshments will be served. ODXA supplies will also be available. Contact Stephen Canney 222-9658 to reserve a table.

May 9 : Toronto Area ODXA Meeting 7:30-10:00 pm, Ontario Science Centre, Theatre B. $3.00 admission.



7 pm Newcomers' Session - A question and answer time for those new to the hobby and to the ODXA.

7:30 pm Special Guest **Dr. Charles Bolton FRSC, Professor and Associate Director of the David Dunlop Observatory in Richmond Hill, Ontario**. His talk is entitled, "Our Restless Sun". He will discuss what is known about magnetic activity on the Sun and which is responsible for the 11-year sunspot cycle. The sunspot cycle is near its peak of activity at present. Slides and a short movie will be shown to give examples of the type of activity that occurs and show how these events can produce spectacular effects on the earth.

Dr. Bolton was educated at the University of

Illinois and the University of Michigan. He has been on the staff of the University of Toronto since 1979. He is a stellar astronomer with special interests in variable and binary stars and stellar atmospheres. He was **"co-discover"** of the first black hole, Cygnus X-1.

Mark your calendars for this one. Refreshments served. Club supplies will also be sold.

Activity Report

Thanks to Paul Goliboski and David Ross (and possibly others) for representing the ODXA at the Peel Amateur Radio Club fleamarket on March 3rd.

Also thanks to Wes Milczyn and everyone else who staffed our exhibit at the Hobby Show held at CNE in Toronto in early March.

The voluntary efforts of all of you are much appreciated. ❑

For Sale

DX ONTARIO # 1 - The club has printed a small number of our first bulletin, issued in February 1975. You can get a copy for $3.00 postpaid from club HQ.

World Radio TV Handbooks for sale : 1982, 83, 84, 85, 86, 87, 88, 89. $5.00 per copy plus $1 shipping. Also have a **1952 edition** of the World Radio Handbook (pre-WRTVH) to trade for a similar copy from same era. Contact Harold Sellers at club HQ, (416)853-3169.

(1) Commodore Amiga 500 computer with 1 meg RAM, 1084 Colour Monitor, mouse, software, manuals, boxes. $1100 or best offer. (2) Vintage tube-type osciloscope, Precision ES-500A. Best offer. Call Marc (416)466-0561 (leave message if not home).

For Trade - A Farfisa compact Fast 5 electronic organ (original cost $1000). Included in the trade is a Yamaha 115B bass amplifier. Will trade for a good used Icom IC-R71A, Kenwood R-2000 or NRD-515 receiver. Call for further details on the above. Stan Cepukas, 442 Shuter St., Wingham (519)357-3843 or at CKNX-TV Wingham (519)357-1310.

Japan Radio NRD-525 communications receiver. In mint condition, with manual and original packing cartons. Original accessories. Two years old, but seldom used. Over $2000 new. Asking $1500. Pierre Avignon, 5080 de Courtai, Apt.25, Montreal, Quebec H3W 1A7, (514)737-7171.

(1) MFJ-16010 random wire tuner, has knobs for capacitance and inductance. SO239 connectors. New, in box, with instructions. $30. (2) Microlog SWL RTTY + CW interface cartridge for Commodore 64 computer. Comes with manual, patch cord, SWL demo tape. New condition. $60. Jim Cook, 2792 East 50th Ave., Vancouver, BC V5S 1N7, (604)324-7490 0100-0600 UTC.

Yaesu FRG-7000 communications receiver. Similar to R-5000, but no memories. Price negotiable. Jack VE3AMV 622-7061.

HAM IV antenna rotor, with control. New, never used, in box with all instructions. Asking $350 or best offer. Joe Kot (416)274-8256 after six.

WANTED :

Sony ICF-6500W in good condition. Will pay $100 cash. Call Charles (416)925-0569.

Morse-A-Word, by Microcraft, four or eight character readout. Good working order. Jim (416)929-9462.

Kenwood R-600 shortwave radio or similar. Must be in good condition. Call Allen McGillivray (705)855-9552, Chelmsford, Ontario.

For sale and wanted ads from ODXA members are run free of charge. We reserve the right to edit for brevity. Send your ads to Box 161.
Commercial advertisements are also accepted. A rate card is available upon request.

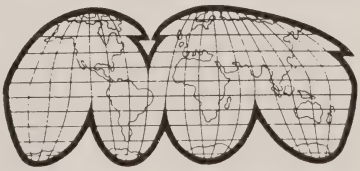
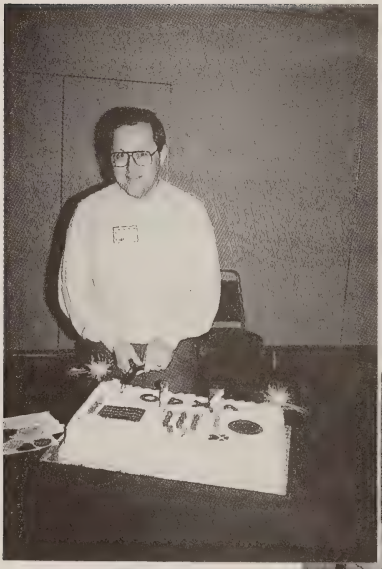
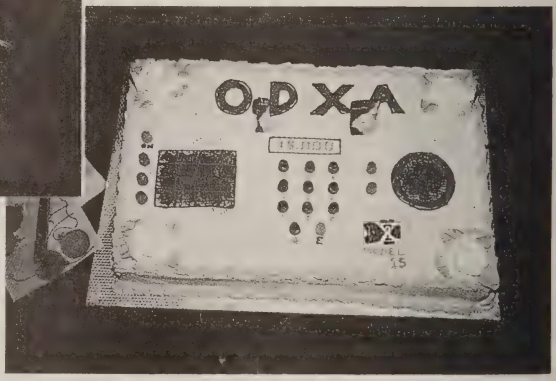


PHOTO PAGE # 1 - 15th BIRTHDAY PARTY

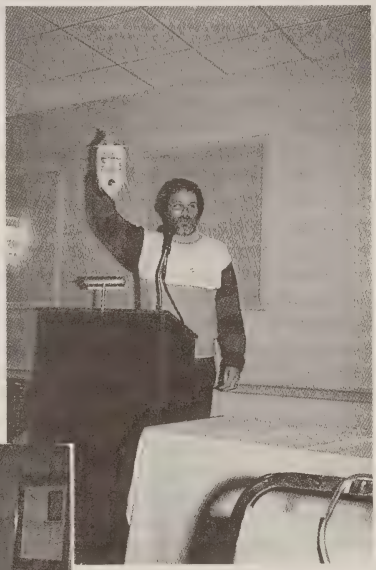


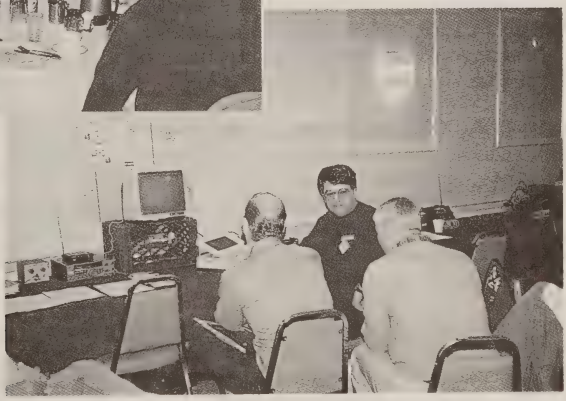


Top : Ori Siegel helps some of the attendees at the exhibit tables.
Middle left : Harold Sellers cuts the birthday cake.
Middle right : Cindy Ellen Morgan and Andy Reid draw raffle prize winning tickets.

PHOTO PAGE # 2 - WINTER SWL FESTIVAL

Left : A few of the attendees brave the Sunday morning cold for a pose.
Below : John Grimley (left) and John Fisher (right) join Chuck Rippell, Gerry Dexter, and others at breakfast.
Right : Harold Cones auctions off a pennant for charity.
Bottom : Tom Sundstrom explains his computer software to two interested observers.





Fred Waterer
15 Watkins Street
St.Catharines, Ontario
L2M 1N3

LISTENING IN

Programming is what we listen to on shortwave and this column presents and discusses programs. The presenters of these programs and the stations they speak from are also topics of this column. Program Calendar gives advance tips on particular programs to be aired in the coming month.

COMMENT

...I remember years ago I wrote to RAI Italy asking about extending,or at least having some cultural type features, but alas nothing has changed. A country like Italy has so much to offer. Although at one time on a Friday following the news they did have a program called 'Ciao Italy' covering tourism and culture if I remember correctly. I think they concentrate on Italian language services, and other services are lower down the scale, so to speak. Even the news at times seems to be translated from Italian to English as they read.

Another station which does not make much use of it's time is Greece, like Italy a country rich in cultural heritage. All we hear is the news, and I wrote to the station about having more cultural and history features, but again nothing changes.

On the subject of answering letters, I think it all comes down to costs, but I find generally that most stations answer on the air, or with a schedule. Only a few stations answer with a personal letter, two being Radio Polonia and Radio Budapest. If you ask a question or for a repeat of a feature, they let you know when it can be heard.

Australia now seems to concentrate on the Pacific Area, and are not interested in other areas. Another station that answers listeners letters is Kol Israel. Still waiting to hear from WWCR, Jordan, WHRI, and these are for schedules, after many months. (Edwin Southwell in February World DX Club **Contact)**

Shortwave Listeners
Are In Touch With The World

NEWS

ALBANIA

◆ All eyes now seem to have shifted to Albania for the next act of the Eastern European Satellites throwing off the Soviet yoke. If change does come in Albania I'll put my money on another Tianamen Square. Those guys in Tirana haven't been following the Moscow line for quite a while now. The uncrowned king of Albania, living in a heavily guarded home in the South African bush, announced plans to overthrow the Stalinists in Tirana by means of shortwave broadcasts into Albania.

◆ **Radio Moscow** states that it has never received a letter from Albania as a result of it's Albanian service. The VOA Albanian Service says it received 118 letters in 1988, mostly from Albanians residing in Yugoslavia. VOA did say it received 2 from inside Albania.

◆ **Radio Tirana** is giving language lessons on it's Tuesday and Saturday broadcasts. There's a terrible, loud hum making audio, and learning Albanian, a difficult task. Is this a transmitter problem? (Harold Riddell)

AUSTRALIA

Radio Australia has featured live coverage of the Commonwealth Games on frequencies that are known as part of their regular complement (but not scheduled at the time). 17795 kHz has been coming on early and carrying the coverage and when that frequency is slated for regular programming 21740 kHz has been used for coverage of the Games. This is not a new development as

Radio Australia regularly does this for their weekend sports specials, especially early on our local Saturday mornings. (Mark Coady)

◆ Radio Australia has a feature every Wednesday at 0730 UTC called "Land and Culture" dealing with the special people and cultures indigenous to Australia. The February 14th edition had an interview with an aboriginal woman who had risen up from lowly beginnings to a position high in the Australian government. (Mark Coady)

◆ Radio Australia has a new phone number (011-61-3-881-2360) that was announced on February 5th. You can leave requests, messages, and even reception reports, on the tape. (Mark Coady)

BULGARIA

It all began in the '20s when a small group of radio enthusiasts gathered to discuss the way to introduce the Bulgarians to the world of airwaves. In June, 1926, they founded the first radio club in Bulgaria with the purpose of acquiring a transmitter. In this the club failed, but it did make the public aware of the great potentials of radio broadcasting, and as a result, the Bulgarian Parliament adopted a Broadcasting Law in 1927.

One of the most ardent propagators of radio broadcasting at the time was Prof. Assen Zlatarov, a prominent scientist and public figure. His was the idea for setting up a co-operative called "National Radio" with the aim of supplying money for a transmitter. On December 13, 1929, the call-sign "This is Radio Sofia" was heard for the first time.

At first "National Radio" broadcast 3 times a week,2 hours a day featuring mainly music. Gradually the air time expanded as new programs were introduced: Children's Hour, Agricultural Survey, programs on family life and child upbringing, as well as sports news and even lessons in foreign languages.

"National Radio" broadcast till 1935 when according to a new law the transmitter was nationalized and the state began to control radio broadcasting.

As for the Foreign Service, it was founded in 1937. Nowadays **Radio Sofia** has 4 channels: Horizon, which broadcasts 24 hours a day; Hristo Botev, which broadcasts 18 hours daily, Orpheus which is similar to BBC Radio 4 in it's orientation towards classical music and cultural topics; an educational channel called Knowledge, and of course, the Foreign Service, which broadcasts in 11 languages with a total of 44 hours daily transmissions. (John Spencer Carson Jr.)

CANADA

Radio Canada International did not drop the German-language service as had been planned. The broadcasts are continuing for the time being as a result of the Arabic transmission to the Middle East being postponed from its April 2nd start-up date.

RCI was also to have dropped the English and French news broadcasts to Europe between 0600 and 0700 UTC, but these will now apparently remain on. (Harold Sellers)

The Ottawa bureau of RCI is virtually being eliminated as a result of the latest CBC budget cuts. Five reporters, a bureay manager and a secretary-receptionist will be going. Only a single announcer-broadcaster who works for the Russian-Ukrainian service will remain.

One position each in Montreal and Sackville have been cut and the music production unit in Montreal is eliminated. (Toronto Globe and Mail, Mar. 9, 1990)

COSTA RICA

Radio for Peace International broadcast reports from El Salvador through two Peace Brigades International volunteers who were giving live updates from San Salvador via telephone at great risk to their lives.

While many international media sources were reporting the political issues involved, RFPI was reporting on the human side of the conflict, the plight of the innocent civilians

caught in the battle zones.

The reporters were in extreme personal danger to even attempt to give reports outside the country. The first report disclosed that fighting was going on in poor sections of the city. Thousands were fleeing to the churches for shelter. Even the churches were being attacked by military forces. In one incidence a grenade was thrown into a church by government forces, killing several persons, including a child and injuring a U.S. doctor.

On the second evening eye witness accounts of indiscriminate bombing of neighbourhoods in and around San Salvador were reported.

While the reporter was talking, bombs and machine gun fire could be heard in the background. Other shortwave media sources at the time were reporting that no indiscriminate bombing was going on.

On the final day that we were able to get reports out of El Salvador for personal security reasons on behalf of the reporters, the news of the massacre of six Jesuit priests, their cook, and the cook's daughter in their beds as they slept, was reported. There was heavy army presence around the University of Central America the night of the massacre.

No one knows what atrocities are still occurring because the El Salvadoran government is controlling as many means of communication as possible. Just because the news in the international media has quieted, does not mean the killing in El Salvador has ended.

On November 20th RFPI made a special broadcast dedicated to El Salvador with programs related to the nation's history as well as the current situation. This broadcast included an interview recorded early in 1989, by RFPI correspondent Sue Supriano, of Father Ignacio Martin Baro, one of the massacred Jesuit priests. The broadcast received numerous comments from listeners. (RFPI Newsletter via John Spencer Carson Jr.)

CZECHOSLOVAKIA

Radio Prague is now using a new interval signal that seems to be based on some of their older folk music. It sure beats the tin trumpet sound of their old interval signal! (Mark Coady)

ECUADOR

HCJB's "DX Partyline" has a new feature produced by Neil Carleton, a member of the ODXA and CIDX. "Radio Stamps" is a monthly feature looking at postage stamps with radio themes. Neil is an expert in this field. The first edition was aired March 5th and the second will be on April 9. (Harold Sellers)

GHANA

On February 11th at 2246 UTC I noted the **GBC-1** outlet on 4915 kHz with a special program dealing with the release of Nelson Mandela.

They chronicled his life and the causes that he, and his people, have been fighting for. It was interesting to hear how the rest of Africa views the events in South Africa. (Mark Coady)

JAPAN

Radio Japan's "DX Corner" will be extended by five minutes as of April , according to hostess Rika Kobayashi. (Bruce MacGibbon, "The DX Spread")

NETHERLANDS ANTILLES

Trans World Radio now closes down at0430 UTC, having dropped "Caribbean Nite Call" (which was heard Sunday and Monday) and "Trasnochando" (which was Tuesday-Saturday). According to McDaniel Phillips of TWR-Bonaire these popular programs had to be cut due to "insufficient personnel and financial considerations".

TWR-Bonaire can be well-heard at 0300-0430 on 9535 and 11930 kHz. "Bonaire Wavelengths", an SWL program hosted by Chuck Roswell, is aired at 0330 UTC local Saturday. It is also broadcast at 1130 Saturdays on 11815 and 15345.

"Morning Sounds" is a very popular program hosted by McDaniel Phillips and it's a great way to start your day with news, light music, dedications, and features. Listen between

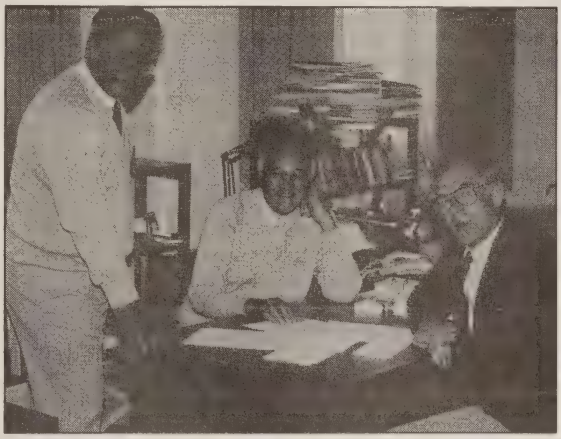
1100 and 1200 UTC on the above frequencies. (direct and Harold Sellers)

NEW ZEALAND

The 100 kW transmitter of **Radio New Zealand International**'s Pacific Service is pulling me away from always listening to Tahiti for my fix of island music.

February 15th at 0521 UTC on 17680 kHz I was tuned to an interview program in the Polynesian Service that culminated in island music that rivals that of Tahiti, but with a far clearer signal. There was also a special update on Cyclone Penny that was wreaking havoc upon the Cook Islands. (Mark Coady)

◆ The inaugural broadcast of Radio New Zealand International began at 0400 UTC on Wednesday, January 24, 1990 on 17680 kHz, with a very strong signal in the Ottawa area. There was a frequency change to 9850 kHz at 0600 UTC for the opening ceremonies of the 14th Commonwealth Games. This frequency was blocked by WYFR, Okeechobee.



Producer-announcers Maligi Evile and Henare Te Ua discussing programming with Ian Johnstone.

Almost crystal clear signals on 9850 kHz have been picked up since then at 0815 UTC, to sign off at about 0915 UTC. I use the timer in my Kenwood R-1000 and listen the next evening. Unbelievably clear signals have been picked up.

The inaugural broadcast began with the Bell-Bird interval signal, time pips at 0400 UTC, a Maori greeting, a prayer in English, and another identification consisting of a Maori chant by a woman and native drum beats. (Bernie O'Shea)

◆ Transcript of the Inaugural Broadcast

"This is the Pacific Service of Radio New Zealand International...To launch our new service, His Excellency, the Most Reverend, Sir Paul Reeves, Governor-General of New Zealand. 'Today the old 15 kW [he goofed hear, it was 7.5] transmitter which has carried New Zealand's broadcasts overseas since 1946 is switched off and Radio New Zealand International begins this new service to the South Pacific, using a more powerful 100 kW transmitter sited near the centre of the North Island.

'Over past years Radio New Zealand's shortwave service has built up a reputation as an honest mirror of this country and it's issues. It has never been a propaganda station or an instrument of bias for overseas consumption. Ours has been a very small voice, but a trusted one. Be assured that editorial policy of honesty and impartiality will continue in the best tradition of public service broadcasting.

'This new service, and much more powerful transmitter will allow New Zealanders to talk with listeners in neighbouring South Pacific countries and elsewhere, about life in our country and region, the things that we can offer, and the part we play in Pacific and World affairs. It gives us the means to draw closer to you in practice, where before, the spirit of friendship was there, but shared distances often overwhelmed our limited resources or made past links tenuous and unpredictable.

'So I hope that Radio New Zealand International will prove a valuable communication link within the region and do much to re-establish ancient and modern connections within the Pacific.

'Last year I paid an extensive visit to the region. It gave me an opportunity to meet old friends and in particular I send my greetings to the leaders of the churches and to Walter Lini, Prime Minister of Vanuatu, a friend and indeed, a former student. My government instituted the Sir Paul Reeves Scholarships, which aim to give students from the Pacific

an opportunity to study in New Zealand and I have been pleased this year to meet those who currently hold these scholarships.

'Now there are really three stages of contact for Radio New Zealand International. First, our good friends and neighbours of Polynesia and Melanesia, and then beyond this home base, as it were, are the countries of the Pacific Rim, South East Asia, North, Central and South America, different in character but with important influence in this region. And from even further afield, global issues and policies increasingly impinge on what used to be thought of as a seperate and isolated corner of the world. And New Zealand has a contribution to make there.
'1990 is a special anniversary year for us in New Zealand when we are commemorating 150 years of nationhood since the signing of the Treaty of Waitangi between the Maori people and the British Crown.

'And this inaugural broadcast has been arranged to coincide with the opening of the 14th Commonwealth Games in Auckland, and athletes are all gathered here ready to start; the crowds are assembling at Mt. Smart Stadium in Auckland right now. Shortly you will hear the opening ceremonies broadcast live from that venue and then for the next 10 days you will be able to follow the fortunes of the various competitors.
'And after the Commonwealth Games, there will be coverage of a Polynesian festival in the 150th Anniversary ceremonies to mark the signing of the Treaty of Waitangi in 1840.

'These are events of great importance and pride to New Zealanders and it is our pleasure to be able to share them with you.

'I wish Radio New Zealand International a bright and successful future, putting us in touch with one another. We in New Zealand will be delighted if such an exchange can help us contribute our best to a shared destiny of health, prosperity, peace and contentment in this Pacific Region. My best wishes to you all."

The National Anthem followed. Then messages of greetings and congratulations from all over the South Pacific, and part of the North Pacific, too, and from island communities in Auckland. Island music was played between messages. Greetings came from the Minister of Broadcasting, Niue, a spokesman for the people of Tokelau, the Minister in charge of Cook Islands Broadcasting Corporation and Information Service, the Director of Vanuatu Broadcasting, the Minister of Foreign Affairs (New Zealand) the Hon. Russell Marshall, Kiribati, Tuvalu, the Solomon Islands Broadcasting Corporation-Radio Happy Isles, the Leader of the Opposition (New Zealand) the Hon. Jim Bolger, the Apia studios of the Western Samoa Broadcasting Service, Papua New Guinea, Fiji, the Federated States of Micronesia Broadcasting Service, the former New Zealand Prime Minister, the Rt.Hon. David Lange, the Secretary-General of the Pacific Forum in Suva, the Director-General of Radio Australia, the Chief Executive of the Tonga Broadcasting Commission, and the Chief Executive of Radio New Zealand, Beverley Wakem. (Transcript by Bernie O'Shea)

SOUTH AFRICA

Radio RSA's 0200 UTC transmission on February 11th devoted the entire program, save for the PO Box 4559 slot, to the release of Nelson Mandela (he would be released about 12 hours later). They replayed President F.W. DeKlerk's news conference. A feature dealing with Mandela's background was then heard followed by commentary by reknowned South African professors. Remote pickups in Ottawa, London and Washington relayed the messages of support read by officials representing Brian Mulroney, Margaret Thatcher and George Bush.

Later that evening, I monitored **Radio 5** on 4880 kHz and the DJ made a brief mention of the news, inviting listeners to keep tuned for the news at 0400.

Radio RSA's February 12th transmission at 0200 UTC covered more developments on Mandela's release and had a commentary on Mandela, the ANC, and the peace process that soon must start. They also played part of a speech that Mandela gave that day to a crowd of supporters in Capetown.

These were history-making events and shortwave listeners were the only ones to hear the latest developments right from the source. (Mark Coady)

UNITED STATES

KNLS proudly announces the beginning of new weekend programming.

(next page)

The new Executive Producer, Dale Ward, explained the nature and purpose of this decision. "Listener surveys indicate a larger audience is available on Saturdays and Sundays. KNLS will serve this audience with programs specifically designed for hours of variety programming to the same standard to which listeners responded so wonderfully the last six years", said Ward. It's called Weekend Special. The term "special" is used because these programs are whole hours produced just for specific weekends.

KNLS – THE NEW LIFE STATION
ANCHOR POINT, ALASKA 99556
UNITED STATES OF AMERICA

Ward added that new emphasis upon drawing spiritual lessons from current events will add excitement and enthusiasm to the weekend broadcasts. Each language hour will include greetings from a host who will tie music, station information, free tapes and other gift items, all together into an entertaining and informative program package.

In Mandarin Chinese, Edward Ho is serving as the host. Edward guides the listener through the hour with items of information especially designed for KNLS Asian listeners.

In Japanese, a special treat, with two hosts for each hour. Lee Bulls and his wife Tamaki talk together about family values and present a special brand of musical entertainment that will insure listener interest.

In English, Dale Ward, the newest member of the KNLS staff, puts his 13 years of broadcast experience to work for listeners. Drawing on this experience, plus another 13 years as a minister and college teacher, Ward is combining music, news and spiritual programming into an hour that he hopes our listeners will request on cassette tape to listen to again and again.

A new program written by Ward especially for the Weekend Special is called "Continuum". He draws on current events or history to lead listeners into fresh understandings of how the Bible comments on life from the practical viewpoint. Please tell us how you like "Weekend Special". Our desire is to serve listeners and you serve us best by reponding truthfully to KNLS programs. (KNLS Goodnews letter)

KUSW

Member Michael Schulsinger of Ohio recently sent the following story to DXM. Friends...this is what DXing is all about! Take it away Michael...

"I am fortunate to have a job (scientific electronics R & D) that often permits me to listen to shortwave radio at work. Sometimes I tune in to the Christian Science Monitor stations and sometimes the Voice of America. But on Thursday, December 28th I brought up KUSW in Salt Lake City on 15650 kHz for an afternoon of good rock music and bad commercials.

"About the time I tuned in, the station received a telephone call from a US Navy sub tender off the Costa Rica coast. The caller claimed that this ship was the source of the broadcast being blasted at Noriega in Panama City's Vatican Embassy. They had been using VOA, but thought that KUSW might be an interesting change of pace. They also had a few musical requests.

"The effect on KUSW staff was immediate. The format targeted at a few thousand North American listeners was pitched out the window, and a new format thrown together to entertain the troops in Panama and to drive Noriega crazy. For the next few hours, it was Springsteen's 'Born in the USA', Hendryx's version of the Star Spangled Banner and a Neil Young depression music festival! A disk jockey stayed on after her shift, and a party atmosphere prevailed at the station. All in all, it was one of the strangest programs I have ever heard, even from Radio Tirana! (Michael Schulsinger in Feb. SPEEDX DX Montage)

Voice of America

◆ The Voice of America has an excellent science and technology program on local Sunday evenings at 0110 UTC called "New Horizons". The February 5th issue dealt with the Hubble Space Telescope which is supposed to give man the most advanced, and most powerful, telescope to date. (Mark Coady)

◆ A memorandum went out to VOA employees on 12/11 telling them that the 'FY-1990 budget has no funds for **VOICE** magazine. To keep the publication alive, VOA is trying to "privatize" it. With the agency's full endorsement, we have advertised for a private publisher who would be willing to print and

distribute the magazine (in return for access to our subscription lists and the right to sell subscriptions and advertising space in VOICE). We are in negotiations with potential publishers, exploring how VOICE can be converted into a viable commercial periodical. While many questions are not yet resolved, we are optimistic something can be worked out.(Bruce MacGibbon in Feb. NASWA **The Journal**)

◆ The last issue of VOICE was the Winter 1990 edition, which covered December and January programs. Unfortunately it didn't arrive until late January! The magazine is printed in the Philippines, as are VOA's QSL cards. Interestingly BBC's **London Calling** is printed in Singapore. (Harold Sellers)

◆ ***VOA Cuts***
Greek, Turkish, Slovene, and Laotian broadcasts are to be dropped as of April 1st. Uzbek and Swahili are to go as of June 1st.

VOA Director Richard W. Carlson met with VOA staff on February 1st and announced the language cuts, eliminating 57 jobs. He said "We will, in effect, do what thirty years of Soviet jamming was unable to do. We have no choice in this at all."

Carlson said that during his time as Voice of America Director they have cut $36 million from the budget.

Congress is telling the VOA to add Tibetan, but there are no funds for it.

$170 million is the present budget for salaries and expenses, approximately $7 million less than they asked for and need, according to Carlson.

Since the beginning of 1987 113 language-program-hours have been cut, 75 hours of English every week dropped, airtime reduced in 15 languages, Thai and Portuguese to Portugal closed, over 30 newsroom jobs eliminated, as well as five correspondent positions. Five news bureaus have ben closed : Hong Kong, Rome, Mexico City, Boston and Houston. 222 jobs have been cut since December 1987. Advertising and promotion have been slashed; travel cut by 20% across the board. Last September 42 hours per week were shaved off the Arabic, Polish, Russian and Spanish services.

TV Marti is going ahead, however. Carlson said that the money comes from a different fund and he can't change that. Only the government (i.e. the President) could change that. (via Harold Sellers)

NEWS FLASH! Update to the preceeding story.

Freedom's Voice Unmuffled

It is good to know the bureaucrats at the U.S.Information Agency have gotten their priorities straight.

On Feb. 1, the Voice of America-a division of USIA-announced it would eliminate six foreign-language broadcasts for budgetary reasons. Reductions were planned for five other broadcasts.

The action drew legitimate objections from Congress, where the significance of events in the Soviet Union and Eastern Europe apparently is viewed more acutely than at the VOA. The revolutionary changes that have taken place in such countries as Romania and certain Soviet republics can be traced in large part to broadcast news from the free world.

Writing about foreign broadcasters, columnist Ken Adelman said: "No group has done more to inform the masses, who really do move the world." Rather than pull the plug on programs that extol the values of democracy, the United States should be expanding it's reach. Radio Marti, which penetrates Fidel Castro's Marxist Cuba should be joined by TV Marti.

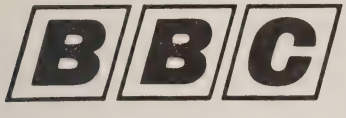
Fortunately, someone at USIA saw the light and directed the VOA to continue the six broadcasting services. The agency was told to look elsewhere for budget savings.

That was a sound decision. The voice of freedom must not be muffled by what Adelman calls "the green eyeshade mentallity"that pervades Washington. (The Daily Oklahoman, Oklahoma City Feb. 14, 1990 p. 8, via John Spencer Carson Jr.)

UNITED KINGDOM

◆ ***Dial Up in Australia***
People all over Australia can now hear **BBC World Service** loud and direct from London-

by telephone! The Intelcom service provides 24-hour a day access for the cost of a normal STD call.If you live in or are travelling to Australia, the number to call is 00 555 1434.



The new service continues the project begun in 1988 to upgrade BBC radio transmissions to the continent. Australian listeners had long complained of poor-quality shortwave reception in their area. As a result the BBC inaugurated a high quality satellite feed, and many networks and individual radio stations have taken the opportunity of rebroadcasting World Service programmes. (**London Calling** March 1990)

◆ ***Big in Nigeria***

Nigeria has overtaken India as the country with the largest audience for the World Service in English.

The results of the latest survey carried out by the BBC's International Broadcasting and Audience Research department (IBAR), show that nearly 12 per cent of adults aged over 15 - some 7.2 million people - listen each week. But head of IBAR Graham Mytton points out that the research unit's knowledge of India is patchy and suspects the true Indian figure will match the result from Nigeria. It might even rival the current all-Africa estimate of 10 million World Service English listeners. (**London Calling**, March 1990)

◆ ***Official Soviet News Outlets in Dispute Over Criticism of BBC***

Glasnost took a strange and unexpected turn yesterday. Radio Moscow denounced Tass news agency for accusing the British Broadcasting Corporation of an "ill-intentioned lie" that Tass said had fanned the flames of ethnic unrest in Central Asia.

"In some cases we do not agree with the BBC, but in this case we believe it is our duty to believe them," Radio Moscow told listeners to it's world service last night. The official Soviet radio network not only sided with the BBC but a Radio Moscow announcer also said colleagues at the official Soviet news agency had behaved "deplorably" by transmitting a story yesterday afternoon in which they accused two BBC reporters who were in Uzbekistan on the weekend of "great moral and psychological damage" to the peoples of that republic.

The dispute began late Friday night when Radio Moscow quoted it's affiliate, Interfax, as saying that ethnic rioting had broken out between Muslims and Christians in Samarkand, in the centre of Uzbekistan, and that troops were being rushed to the scene. The report, which was carried on Radio Moscow for several hours, was quickly picked up by the BBC World Service and several news agencies and newspapers, including the Globe and Mail.

On Saturday afternoon, with little explanation, Radio Moscow retracted the story. It quoted Interior Ministry officials as saying Radio Moscow's report about ethnic problems in the Soviet Union's most populous republic was untrue. The correction was duly reported by Western media.
Yesterday afternoon, Tass said the BBC report and similar reports by Radio Canada International and Radio Liberty's Uzbek-language service had caused "consternation in the republic". Quoting a newspaper editor there, Tass said the false information was the result "professional unscrupulousness" by the BBC.

The news agency said that the BBC report had so incensed residents in Samarkand's old quarter that they had prepared a resolution demanding that the British radio service correct it's error. The statement also said: "Nothing can shake our multi-ethnic family."

In it's news bulletin last night, Radio Moscow said Tass had obviously failed to listen to the Western radio reports or it would have noted that they were quoting an official Soviet agency as the source of it's information. "We present our apologies to listeners and colleagues and in the future will take additional measures to verify our sources," Radio Moscow said. (**Globe and Mail**, Feb. 20, 1990)

APRIL PROGRAM CALENDAR

RECOMMENDED LISTENING

THE MYSTERY OF EDWIN DROOD-BBC

When England's most famous novelist, Charles Dickens, died on June 10th, 1870 at

the comparatively young age of 58, he left behind him a half-completed novel, set in the cathedral town of "Cloisterham".

That novel has intrigued and tormented generations of readers. The mystery of Edwin Drood remains a mystery without a solution.

Against a background of opium dens and nocturnal graveyard visits, Dickens had set in train a tightly knit plot which revolves around the disappearance of young Edward Drood one stormy Christmas Eve.

Was he killed by his apparently devoted uncle, the opium addicted choirmaster John Jasper, secretly in love with his nephew's fiancee?

Was he murdered by another potential rival, Neville Landless, with whom he had recently and violently quarrelled? Was he in fact killed at all?

And what is the significance of the mysterious stranger, Dick Datchery, who arrives in Cloisterham shortly after Edwin's disappearance and - in the disguise of a harmless old buffer - starts to ask some far-from-innocent questions?

On April 15th, Play of the Week mounts a five-part dramatisation by David Buck of both Dickens' unfinished novel and a completion written by Leon Garfield in 1980. Garfield's version solves all the questions posed by Dickens in a totally convincing and consistent manner.

The Mystery of Edwin Drood is presented in five parts beginning Sunday April 15th at 0101 and repeated at 1201 and 1901 GMT.

VREMYA

The daily Soviet television newscast "VREMYA" is being broadcast Monday through Friday on Ch. 23, WNEQ in Buffalo,NY at 11:00 pm EST (0400 UTC). The dialogue is translated into English. Ch.23 is unavailable on cable so far. Perhaps other PBS stations are carrying this. The project is co-ordinated by WGBH Boston.

PROGRAM CALENDAR

Sun. April 1,1990
The Green Debates-BBC <> The motion - "The best way to preserve the Earth is through a World Environment Agency" 1400,Mon.0100

Royal London-BBC <> Architecture of London's Royal Palaces 2330,Mon.0630,1001

Mon. April 2, 1990
Science and Technology - Deutsche Welle <> A visit to the world's largest computer fair in Hanover.

Wed. April 4,1990
Children of the Ice-BBC <> "Why Greenland isn't Green" 1215,Thur. 0630,1930

Thur. April 5,1990
Ham Radio Today-HCJB <> Transmatching, highest possible frequency,inductance

Sat. April 7,1990
A Plain Man's Guide to the World of Money-BBC 0130,1115,2115

Desert Island Discs-BBC <> guest Eric Clapton 1901,Mon.1515

Happiness Is-HCJB <> Composer Bob Singleton rearranges old classics

Sun. April 8,1990
The Green Debates Phone-In - BBC <> your chance to enter the debates (London 379 7444) 1401,Mon. 0101

Royal London-BBC 2330,Mon.0630,1001

Mon. April 9, 1990
DX Partyline-HCJB <> a look at Superpower KUSW and second part of Neil Carleton's "Radio Stamps" feature

Wed. April 11,1990
Children of the Ice-BBC <> "Of Frozen Milk and Bison Herds" 1215,Thur.0630,1930

Insight - Deutsche Welle <> A portrait of G.F.R. President Richard von Weizsäcker on his 70th birthday.

Thur. April 12,1990
Ham Radio Today - HCJB <> Microsats,ionograms,inductance

Fri. April 13,1990
The Drood Case-BBC <> background to the BBC dramatization. 0730,1215,Sat.2130

Let My People Go-BBC <> Special Easter Service 1401,1901,Sat.0045

Sat. April 14,1990
Desert Island Discs-BBC <> guest John Peel 1901,Mon.0101

Sun. April 15,1990
The Mystery of Edwin Drood-BBC <> dramatization of the Dickens Novel0101,1201,1901

Musical Mailbag Phone-in - HCJB (Call 593-2-241560) 0200,0730

Shakespeare's Stratford-BBC <> a portrait of Shakespeare's town 0230,1615,Mon.0730

Making Matches-BBC <> the arranged marriage 1401,2330,Mon.0630,1001

DX Partyline-HCJB <> Sunspots,what are they and how do they affect listening?, profile of Equatorial Guinea

Tues. April 17,1990
Omnibus-BBC <> The Hubble Space Telescope (to be launched by Discovery) 1615,Wed.0030,1001

Wed. April 18,1990
Children of the Ice-BBC <> "Living in the Global Greenhouse" 1215,Thur.0630,1930

Thur. April 19,1990
Ham Radio Today - HCJB <> Surge protection, MUF and LUF, DC circuit basics

Fri. April 20, 1990
Economic Notebook - Deutsche Welle <> DW visits the Bulawayo Trade Fair and also looks at Zimbabwe's economic progress since 1980. Part 2 on April 21. 1540, 1940

Sun. April 22,1990
The Mystery of Edwin Drood - BBC 0101,1201,1901

Time-BBC <> Prof. Paul Davies explores the concept of time. 1401,2330,Mon.0630,1001

DX Partyline-HCJB <> Mississippi River station WJG, Arthur Cushen's Pacific DX Report

Thur. April 26,1990
Ham Radio Today-HCJB <> Packet radio,ionosondes,DC circuit basics

Fri. April 27,1990
The Singing Stars-BBC <> series traces the lives of vocal stars of the 40's 2115,Sat.0430,Sun.1345

Sun. April 29,1990
The Mystery of Edwin Drood - BBC 0101,1201,1901

Russia, the Drive to Empire-BBC <> 15th century Muscovy to the present. 1401,2330,Mon.1001

Happiness Is-BBC <> a look at Happiness Is, it's history and future.

DX Partyline-HCJB <> North and South Yemen, plus reports from ANARC,EDXC and SPARC

Good Listening! ●

SPECIAL ANNOUNCEMENT

VE3ODX Special Operations for ODXA 15th Anniversary

The Ontario DX Association's amateur radio station, VE3ODX, will be on the air the 15th of every month on the 15 meter band, between 21.150 and 21.250 MHz. Additional frequency ranges include 28.150 to 28.350, 14.100 to 14.200 and 7.050 to 7.100 MHz.

Station manager Stephen Canney VE3FQ will also periodiclly check into the Trans Provincial Net on 7.055 MHz.

Watch for these special operations, and others, and earn an attractive, commemorative certificate attesting your monitoring of or contact with VE3ODX. These special 15th Anniversary Certificates are only available between February 1990 and February 1991.

Reports may be sent to the Ontario DX Association or Stephen Canney VE3FQ.

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DOMESTIC BROADCAST

***Domestic Broadcast** keeps you up-to-date on the North American broadcasting scene - mediumwave, FM and television. Besides news, there are listings of receptions made by members and reported to the column. Your contribution would be most welcome!*

Greetings Everyone!

Ten reporters this month - a new record for this column, breaking the old record of nine set last month. Who says medium wave DXing is dying out! Unfortunately, because of space restrictions, I haven't been able to use all of the material sent in, but I've tried to include a representative sample from each reporter.

Deadlines here are normally the first of the month. However, for the June column, please try to report by April 24th as I have a busy work schedule coming up.

Mediumwave Loggings

(All times EST / *=new to log)

Chris Vassbotn Temagami Receiver : Sony ICF-2010 Antenna : built-in

The first report from Northern Ontario to my column. - editor

*570 CHYM Kitchener ON Jan.16 2311 poor signal with much fading

*590 CKEY Toronto ON Jan.16 2320 fair with oldies (Beach Boys, Neil Young, etc.)

*660 WFAN New York NY Jan.16 2355 excellent with sports talk show *(see article on them under "Station News" - editor)*

*720 WGN Chicago IL Jan.17 0019 fair with ad for local Democratic Party candidate

*1270 WXYT Detroit MI Jan.18 1800 poor with "News Talk Radio", mention of famous Michigan politician being found dead in his home

*1410 CKSL London ON Jan.18 1752 ad for "Big V" drugstore, Fanshawe College, song by "Bad English", good signal

*1520 WWKB Buffalo NY Jan.18 1659 poor, with new summary including US-Canada Free Trade Agreement "meaning a brighter future ahead for Buffalo" *(this is correct call, not WBKB, as I reported in February - editor)*

*1540 WPTR Albany NY Jan.18 1619 poor with weather, stocks, much interference

*1560 WQXR New York, NY Jan.18 1752 poor with "The best classical music in the Nation", ad for Merrill Lynch

*1600 WIXY East Longmeadow MA Jan.18 1624, poor with country music - Willy Nelson, etc.

Mark Coady Toronto Receiver : Magnavox D-2999 with 1 metre box loop or 120 m. loaded Windom antenna

740 WDFZ Tullahoma TN Feb.4 0114 man with local Tullahoma weather, into 60's music, Pontiac dealer ad, etc. Fair with CBC off. *(Listed 10 watts at night, but widely reported in NRC recently. Does anyone know if they've increased power? - editor)*

990 CBW Winnipeg MB Feb.4 2347 very poor, //740 and 940 with CBC program "Jazz Beat"

Paul Snider London Receiver : Emerson ATS-803 Antenna : Inverted-L at 75 ft.

550 WKRC Cincinnati OH Jan.20 1224 *(note time! - editor)* poor with ID, promo for WKRC weather, into rock oldies

600 WCAO Baltimore MD Jan.9 2049 with PSA for "600 WCAO" into country music; poor

720 CHTN Charlottetown PEI Jan.8 1905 with soft rock, ID at 1907 as "720 CHTN",

poor to fair, mixing with WGN

960 WFIR Roanoke VA Jan.11 2255 very good with "Talk Net", ID and news at 2300

1160 WCCS Homer City PA Jan.20 1239 *(again note time! - editor)* with music by Rolling Stones, Blondie, during listener request show, ID at 1243. Fair to good

1200 WAGE Leesburg VA Jan.3 2305 poor to fair with area weather from "WAGE Weather Centre" into Larry King

1200 WBZY New Castle PA Jan.9 2200 poor with oldies, area weather, ID

1200 WOAI San Antonio TX Jan.9 2200 poor, mixed with WBZY with local news, ID, into talk show. *(Used to be a regular in Ontario a few years ago, but seldom reported since CFGO/WAGE/WBZY came on frequency. - editor)*

1440 WWGT Westbrook ME Jan.17 2315 with rock music, IDs as "Power 98" and "G-98", relaying WWGT-FM Portland. Fair signal.

1480 WSDS Ypsilanti MI Jan.16 2205 with country music, female DJ, ads, poor to fair.

1590 WAKR Akron OH Jan.11 1743 very poor with "WAKR exclusive weather center forecast"

David Bantroch Guelph Receiver : Realistic DX-440

940 WKGM Smithfield VA Jan.27 1712 good with "Gospel Hour", three phone numbers plus station's full address given at 1714

1030 WUFL Sterling Heights MI Jan.24 0820 with contemporary Christian music, ID at 0828 as "WUFL...Family Bible Radio" into program "Today's Family". Good.

1050 CFYN Sault Ste. Marie ON Jan.24 0832 News, ID as "AM 1050 Sault Ste. Marie's Authoritative News Voice", poor with interference from CHUM

Marshall Cubitt Smiths Falls Receivers : Realistic DX-440 and Sony ICF-2001 Antenna : 80 m dipole

*1280 WOOK Evansville IN Feb.7 1809 good with easy listening music, call sign WOOK given *(obviously a call change from listed WGBF - editor)*

*1290 WIRL Peoria IL Feb.7 1754 "News Radio WIRL"/"Peoria's official wqeather station WIRL"

*1370 WKJF Cadillac MI Feb.15 1800 traffic report, mentioned traffic lights out in parts of downtown Detroit, calls not heard but only 1370 in Detroit area per NRC Log

1460 WBRN Big Rapids MI Feb.15 1657 weather report, ID as "WBRN 1460"

*1460 KDMA Montevideo MN Feb.15 1659 just caught at end of ID!

*1470 WBKV West Bend WI Feb.7 1731 stock report, ID "This is 1470 WBKV", CST time check as 4:31

1490 WKNY Kingston NY Feb.14 1858 "The Voice of New York Rangers hockey - 1490 WKNY"

FM Loggings

Robert Ross London Receiver : Marantz 2226B Antenna : FM beam

92.3 WJMO Cleveland Heights OH Jan.28 1441 very good "The All New Jammin' 92, WJMO" with Jam and Rap music. Call change from WROC (Tr)

97.9 WXTA Edinboro PA Jan.16 0710 good with country music, ID's as "The new country 98-WXTA". Call change from WMYJ (Tr)

QSLs - Mediumwave

640 WGST Atlanta GA card in 16 days for mint stamp. Milton C. Tauslow, Chief Engineer (Walker-MI)

680 KFEQ St.Joseph MO full data card, coverage maps in 12 days for return postage. Donald E. Moss, Chief Engineer (Walker)

710 CHYR Leamington ON personal letter in 7 days for mint stamp. Tony Everett, Assistant Engineer (Walker)

760 WJR Detroit MI full data QSL in about 6 days (Ken MacHarg - Jeffersonville IN)

830 WMMI Mt.Pleasant MI letter in 4 days for return postage. James Hughes, Reporter-News Department. (Walker)

850 WWJC Duluth MN personal letter, bumprer sticker, and station information in 8 days for mint stamp. Roger Elm, Executive Director (Walker)

880 WCBS New York NY no data "Radio Over New York Skyline" card in about 4 months (MacHarg)

940 CBM Montreal PQ standard CBC card in 45 days for return postage (not used). No signer. (Walker)

1020 KDKA Pittsburg PA no data form letter in 12 days (MacHarg)

1030 WUFL Sterling Heights MI letter, statoon information and bumper sticker in 12 days for return postage. Steve Wright, Station Manager (Walker)

1050 WCUE Cuyahoga Falls OH letter, calendar, station information, and religious tracts, in 4 days for return postage. Curtis W. Flick, Chief Engineer (Walker)

1060 KYW Philadelphia PA full data QSL plus stickers in 6 days (MacHarg)

1120 KMOX St.Louis MO full data letter in 11 days plus bumper sticker and KMOX building post card. Returned stamp. (MacHarg)

1140 WRVA Richmond VA full data yellow logo/skyline card in 13 days (MacHarg)

1150 WIMA Lima OH full detail letter, card in 7 days for return postage. Mark Gierhart, Director of Engineering (Walker)

1360 WGEE Green Bay MI form letter, bumper sticker and coverage map in 8 days for return postage. D.E. Wright, General Manager (Walker)

1430 WFOB Fostoria OH personal letter, coverage map in 15 days for mint stamp. Gregory J. Peiffer, President and Chief Executive Officer (Walker)

1430 WXTZ Indianapolis IN letter, bumper sticker and card from old "WIRE" days, in 12 days for mint stamp. Kim Hurst, Chief Engineer (Walker)

1440 WNPV Lansdale PA full detail letter in 7 days for return postage. Phillip N. Hunt, General Manager. (Walker)

1480 WHBC Canton OH card in 7 days for return posatge. Bill Glasser, Chief Engineer (Walker)

1510 WLAC Nashville TN full detail letter and coverage map in 55 days for mint stamp. Watt Hairston, Chief Engineer (Walker)

1530 WCKY Cincinnati OH full data letter, coverage map, program sked (rare for AMers these days) and refrigerator magnet in 10 days. Mentions reports from South America, Africa, Western Europe, Scandinavia, New Zealand and Australia! (MacHarg)

1550 WBSC Bennettsville SC verification note "verified" on original report. No signer. Received in 6 days for mint stamps. (Walker)

1560 KXOJ Sapulpa OK verification written on original report, in 6 days for return postage. Mike Stephens, Chief Engineer (Walker)

QSL's - FM

All are from Bob Walker MI

92.7 CJBX-FM London ON card in 9 days for mint stamp. Jeff Guy, Vice President Engineering

94.1 WHBC-FM Canton OH card, postcard of station in 6 days for mint stamp. Bill Glasser, Chief Engineer

94.5 WKLQ-FM Holland MI letter in 4 days for return postage. Ronald Steenwyk, Chief Engineer

95.9 CFPL-FM London ON letter in 8 days for return postage. Barry Smith, Program Manager

95.9 WMTR-FM Archbold OH note "thanking you for listening" with no details, bumper sticker in 9 days for mint stamp. No signer.

96.1 WHNN-FM Saginaw MI report written on original reception report and bumper stickers in 4 days for mint stamp. Jim Spangerberg, General Sales Manager

98.1 WDFM-FM Defiance OH personal letter, bumper sticker in 15 days for mint stamp. Debra Caldwell, Customer Services Supervi-

sor. (Note: Correct address is 118 Clinton Street, Defiance, OH 43512 and not the Columbus OH address most reference sources list.) (Walker)

98.5 WNWN-FM Coldwater MI personal note in 4 days for mint stamp. Ken Delaney, Operations Manager

Station News

ONTARIO

Brockville : The CBC will surrender the licence of CBOB 100.3, which never did come on the air as the new CBC station in Ottawa would make it redundant. (Andy Reid - Peterborough)

Fort Frances : The new call for the 90.5 CBC relay here is CBQQ. (Reid)

Ottawa : To clarify the CBC situation here, they will be moving both their Ottawa AM outlets, CBO and CBOF, to FM. CBO-920 will move from 920 to 91.5 and CBOF (French) from1250 to 90.7. Both will have an ERP of 84 kW. In the decision, interference to the present AM signals at night was one of the factors, but the CBC stressed "We have accepted the fact that the basic service should remain on AM, and in the long-range plan, you will not see any reference to moving Toronto, Vancouver, Winnipeg, Calgary, Edmonton, Quebec or Montreal to the AM band." The two Ottawa AM's would sign off within 12 months of the new FM stations signing on. (Reid)

Renfrew : CBOF-8 98.7 will go silent when the CBC French outlet in Ottawa goes to FM. (Reid)

Sudbury : The proposed new FM English nd French stereo services on 90.1 and 90.9 are not on the air due to "lack of sufficient funds". (Reid)

Toronto : CJBC-FM 90.3 is not on the air "due to lack of sufficient funds". The planned air date for this and the two new Sudbury FM's (see above) is December 1991, but don't count on it! (Reid)

MICHIGAN

Mount Clemens : WBRB-1430 in this suburban Detroit community is off the air and for sale, due to continuing operating losses. (Walker)

NEW YORK

Buffalo : WHTT-1120 does not always simulcast with their FM as per NRC Log. Heard Feb.4th at 1630 with the "Polish American Sunday Program". Not //104.1. (Coady)

New York : WFAN-660 is doing well with their all-sports programming. Surveys estimate some 1.5 million listeners weekly in the New Jersey-New York-Connecticut market, when basebball is not in season and some 3 million when it is. Most listeners are men aged 25 to 54.

The station's 50,000 watt daytime signal extends from Philadelphia to Albany to Providence and even to Cape Cod.

The station's rapid success is attributred t its switch from 1050 to 660 on he dial (The old WNBC spot.) in October 1988 and morning man, outrageous talk show host Don Imus ("Imus in the Morning") a long time staple on the New York radio scence who stayed on when WFAN took over WNBC's facilities. (The Day New London CT Jan.26, 1990, via Gerald Kercher, Quaker Hill, CT)

Correction:

CKRW-610 Whitehorse is an independent station, not a CBC affiliate as I indicated in my January column. CFWH-570 is the regional CBC outlet. (Sorensen)

Publication :

Check Broadcaster (January 1990) for an article "The Death of CKO" by David Spencer, an in-depth look at the demise of Canada's all-news radio network. (Sorensen)

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No loggings from your editor this time. Living in a basement apartment with flourescent lighting in the middle of a city is hardly conducive to medium wave DXing. Hopefully, I will log some DX while visiting my parents in Kemptville this coming weekend.

Thanks to first time reporters Chris Vassbotn, Gerald Kercher and Kenneth MacHarg. I hope you'll report often. Thanks also to regulars David Bantrock, Andy Reid, Robert Walker, Paul Snifer, Robert Ross and Marshall Cubitt. See you next month!

73,

Morris Sorensen

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MONITORING SERVICES

This column is devoted to the subject of utility stations. A utility station being a non-broadcast station which is NOT directing its transmissions to the general public. Loggings, articles and QSL reports related to such stations in the 10 to 520 kHz and 1.6 to 30 MHz ranges covering Voice, CW, RTTY and Facsimile stations are included in this column.

Next Deadline For Reports.....Friday, April 6th

This months column features an article by ODXA member Robert S. Ing on Canada's new military communication projects.

A NEW COMMUNICATIONS TECHNOLOGY FOR CANADA'S MILITARY

by Robert Ing

During the 1970's and 1980's the Canadian Armed Forces became the brunt of a number of comments regarding the age and state of the equipment and technology it had available. To add insult to injury, the announcement made last year by the federal government to permanently stand-down (close) 3 bases and 4 communications stations didn't seem to improve matters. Most people who read the media reports, will tell you that the government also cut back defence spending. This, if one cares to read the fine print, is only partially true. The federal government is not providing the regular, annual increases to the forces, but the base allocation is unchanged.

The Canadian Forces of the 1990's may be financially leaner and down to a few establishments, but there is no question that technology is coming to our forces in a very big way. With the budgetary restraints, the official technology line seems to be, "if you can't afford to replace it, upgrade it technologically". This process has been occuring for sometime now. Forgetting about the obvious, such as our Forces new CF-18 jets, patrol frigates, EH101 rotorcrafts, light armored vehicles, and updated conventional weapons systems, let us consider the new communications technology for the 1990's.

The first sign of a real communications technology revolution in our Forces perhaps began with the introduction of this technology on board our helicopter destroyer escort vessels. The most recent example is the HMCS Nipigon (DDH-266) also known on the air as CGZP or CIW8104. The Nipigon is currently in dry dock in Halifax and despite being a 26 year old vessel, will re-emerge this spring with a most sophisticated communications system. A scan of the radio room and equipment bay will reveal a SATCOM receiver array and KW-46/84 digital cryptographic system, (primary transmitter) will be an RF-1130-02; well known in military circles for durability and reliability. On the discrete equipment side, noteworthy additions include the SQS-510 hull mounted sonar, CANTASS towed array, and a state-of-the-art doppler log for greater accuracy in position fixes. It is interesting to note that the SQS-510 sonar is far superior to the SQS-505 unit which will be installed on the new patrol frigates.

The communications equipment package installed on the HMCS Nipigon is pretty much what will be installed on other helicopter destroyer escort vessels. It is no small coincidence that these vessels will probably be the bearers of the new EH101 rotorcraft fleet as soon as they are taken on strength.

Another communications technology development for the Canadian Armed Forces came to light when seven Canadian based companies were given invitation to tender, with a May deadline, to submit portfolios for an

$800 million project directed at totally replacing the present obsolete mobile communications system. While exact specifications and terms of reference for the project are only released on a need-to-know basis, the defence information people have only given some general details regarding the project. The mobile communications system is to utilize what is known as the Iris System, which will provide highly integrated mobile tactical communications. Now, aren't you glad I cleared that up!

A check of Department of Communications fact sheets, tells us that Iris was an R&D project back in 1983, and that its prime objective is the transmission of encoded text. Combine this with the formidable Canadian development of mobile Satellite Technology - MSAT and you pretty well sum up the more than likely communications technology for the Canadian Forces in the 1990's. So what's MSAT?

MSAT or Mobile Satellite is a communications system that will enable the user to communicate voice and data from a single light-weight portable unit. What makes MSAT so special is that it is not only a conventional satellite communications medium but it also enables complete tracking of a moving vessel, vehicle, or aircraft and can collect any form of data transmitted from a given monitoring station or sensing device. The system is also capable of sending commands to automated control stations and its applications go beyond the imagination.

Currently MSAT equipment has seen its way on board a number of Aeromedevac aircraft, and a number of other Search & Rescue vessels and craft. At present communication with mobiles are in the 800 MHz range, with up and down links between the satellite and gateway stations in the 11 to 16 GHz range. With MSAT, communication is assured with the same reliability anywhere in North America, including the most isolated areas of Canada's north. While these areas have traditionally been served by HF transmitters; MSAT offers a high tech alternative. Other technologies in the Canadian Forces and Coast Guard communications arsenal include the already deployed Satellite Search & Rescue Network, and RADARSAT; a satellite capable of detecting oil spills, icebergs, and other hazards.

There is no doubt that the Canadian Armed Forces will face the next decade with leading edge communications capability. After all this, will our Forces still use HF communications? Of course they will, despite all the trappings of technology, an army will still travel on its belly and HF communications will still be there in a support role.

BEACONS

231 BW Buffalo, New York, New York, UNITED STATES at 1920. Poor Feb 10 (RR)
266 B Hamilton, Ontario, CANADA at 1928. Good Feb 10 (RR)
284 UYF London, Ohio, UNITED STATES at 1935. Poor Feb 10 (RR)
350 D7 Kincardine, Ontario, CANADA at 1943. Good Feb 10 (RR)
385 HYX Saginaw, Michigan, UNITED STATES at 1950. Good Feb 10 (RR)
X Toronto, Ontario, CANADA at 1952. Fair Feb 10 (RR)
397 A Hamilton, Ontario, CANADA at 1954. Very Good Feb 10 (RR)
403 R Toronto, Ontario, CANADA at 1956. Fair Feb 10 (RR)

VOICE

2654.5 NNN0HWF (Net Control) in USB working NNN0EDF and NNN0LMI at 0214. HWF and EDF were discussing the sharing of frequencies with the Coast Guard. These are US Navy Mars affiliate stations and I can not find a listing for them. Good Feb 12 (SC)
7635.0 CAP (Civil Air Patrol) Network in USB with Blue Chip 13, KIG448 (Net Control) with names used such as Golden Rod, Sparrow, Redstar, Mockingbird, Starfish, Bluebird, Thunderbird, etc. (All States checked in or were relayed in). All staff, squadron or relay stations were asked to check in. There was a discussion on the change of the daytime frequencies. The daytime net frequency of

14905 is gone. The new daytime net frequency is 14902 kHz USB. The net went off at 0208 and went back to the primary Tennessee frequency. Good Feb 12 (SC)

8134.0 UNID station in AM sending 5 number groups in Spanish (male voice) and signed off at 1039 with "Finale Finale". Very Good Jan 30 (SC)

13190.7 LPC42 Ushuaia, ARGENTINA with a voice marker tape in English/Spanish with "Lima Papa Charlie, Radio Coastal Station Ushuaia.." at 0113, (gave channels for communication); Fair Feb 14. (Ushuaia is the most southerly town in the world! About 2000 miles from the South Pole. (TW)

14450.0 WGY906 FEMA Denton, Texas, UNITED STATES in USB conducting a Net test. Two other FEMA operators were on frequency but I could not hear their calls due to heavy QRN on my end at 1447. Poor Feb 14 (SC)

22602.2 SAG Goteborg, SWEDEN with a voice marker tape in English as "This is Goteberg Radio.." at 1435. Good Feb 9 (TW)

22614.6 DAJ Nordeich Radio, GERMAN FED. REP. with clock ticks and a voice marker in German as "Hier ist Nordeich Radio" at 1810. Good Feb 9 (TW)

AIR TO GROUND

5598.0 Delta 34 in USB working Gander, NEWFOUNDLAND with a position report at 0243. Feb 12 (MAC)

5616.0 Cubana 473 in USB working New York at 2343. Feb 15 (MAC)

6676.0 Sydney, AUSTRALIA in USB with a volmet report then "This is Sydney Volmet, out" at 1004. Feb 15 (MAC)

6679.0 Honolulu, HAWAII in USB with a volmet report at 1006. Feb 15 (MAC)

8828.0 Honolulu, HAWAII in USB with a volmet report at 0405. Feb 16 (MAC)

8861.0 Abidjan Aero, IVORY COAST in USB working Springbok 325 at 0157. Good Feb 4 (RR)

8861.0 Dakar, SENEGAL in USB working Air France flight alternately in French and English at 0245. Feb 12 (MAC)

8861.0 Dakar, SENEGAL in USB working Bamako, MALI in French relaying flight info at 212. Feb 15 (MAC)

8903.0 Kinshasa Aero, ZAIRE in USB working Luftstansa 570 at 0342. Good Feb 4 (RR)

8957.0 Shannon, IRELAND in USB with a volmet report at 0212. Feb 13 (MAC)

10057.0 Brazzaville, CONGO in USB with a volmet report in French at 0411. Feb 16 (MAC)

11200.0 MVU RAF West Drayton, ENGLAND in USB with a volmet report at 2025. Feb 3 (MAC)

11300.0 Khartoum Aero, SUDAN in USB working Egypt Air 822 and Speedbird 57 at 0204. Good Feb 4 (RR)

13291.0 Aeromexico 451 in USB working New York with a position report and a SELCAL check at 1944. Feb 3 (MAC)

13306.0 New York, New York, UNITED STATES in USB working Avianca 015 and World 9518 with position reports at 2151. Feb 15 (MAC)

15035.0 CHR Trenton Military, Ontario, CANADA in USB with volmet weather for Ontario airports at 1934. Feb 3 (MAC)

15035.0 CJX St. John's Military, NEWFOUNDLAND in USB with a volmet report for Maritimes airports at 1940. Feb 3 (MAC)

SHIP TO SHORE

4385.3 WOO Ocean Gate, New Jersey, UNITED STATES in USB working MV Ocean Condor with a duplex phonepatch on 4090.9 kHz to company headquarters at 0150. Feb 14 (MAC)

13116.3 WOM Miami, Florida, UNITED STATES in USB working MV Intrepida with a duplex phonepatch on 12345.5 kHz at 0250. Feb 14 (MAC)

13122.5 WOM Miami, Florida, UNITED STATES in USB working MV Electrasea with a duplex phonepatch on 12351.7 kHz at 0232. Feb 14 (MAC)

17242.2 VCS Halifax Coast Guard Radio, Nova Scotia, CANADA in USB sending North Atlantic high seas weather forecast at 2209. Very Good Feb 13 (SC)

22034.1 Vessel WARRIOR (HMS Royal Navy vessel, presumed ID) with phone traffic to Portishead Radio, ENGLAND at 1829. Good Feb 3 (TW)

22596.0 EHY Pozuelo del Rey, SPAIN with a

roll-call of Spanish ships for traffic at 1435. Good Feb 9 (TW)

22617.7 LFN32 Rogaland Radio, NORWAY with traffic to ships and an ID simply as "Rogaland"; at 1800. Fair Feb 9 (TW)

22651.8 SPO91 Szczechin, POLAND with ship traffic in presumed Polish language and a definite ID as "Szczechin Radio" at 1438. Good Feb 13 (TW)

22692.1 HEB62 Berne, SWITZERLAND with a multilingual voice marker as "This is Berne Radio Maritime Radiotelephone Service.." at 1450. Good Feb 13 (TW)

CW

2754.5 CKN Vancouver Radio, British Columbia, CANADA running a "CQ DE CKN" marker at 1156. Poor Feb 11 (SC)

4232.0 FUF Fort de France, MARTINIQUE sending a "VVV DE FUF" marker at 1050. Good Jan 29 (SC)

4257.5 WLO Mobile Radio Alabama, UNITED STATES sending a "CQ DE WLO" marker then into a list of working frequencies at 1053. Good Jan 29 (SC)

4277.0 HKB Barranquilla Radio, Columbia running a "CQ DE HKB" marker at 1100. Poor Jan 29 (SC)

4285.0 VCS Halifax Coast Guard Radio, Nova Scotia, CANADA advising commercial shipping to keep a sharp lookout for MV Charlie, call C4MR at 1102. Last known position was 45.30N, 40.00W on a course of 120 and bound for Gibraltar Straits. VCS went onto say that the vessel is non officially overdue. A description of MV Charlie C4MR followed. VCS asked for all reports to be passed to RCC Halifax. Good Jan 29 (SC)

6340.5 9VG9 SINGAPORE with a CQ marker at 2245. Very Poor Feb 7 (DG)

6371.2 GYU Royal Navy, GIBRALTAR with a DE marker at 2246. Fair Feb 7 (DG)

6925.4 KKN50 Washington, DC, UNITED STATES with a RQA DE marker at 0152. (MAC)

8437.0 PKC Palembang, SUMATRA, INDONESIA with a CQ marker at 1259. JOS was silent. Poor Feb 17 (DG)

8438.0 9WH Kota Kinabalu, Sabah, MALAYSIA with a CQ marker at 1258. Poor Feb 8 (DG)

8440.6 UAT Moscow, USSR with a CQ marker at 1303. Poor Feb 17 (DG)

8461.0 ZSC Capetown, SOUTH AFRICA with a CQ marker at 0425. Good Feb 16 (DG)

8461.0 PKR Semarang, Java, INDONESIA with a CQ marker at 1303. Poor Feb 8 (DG)

8469.0 DHA Sao Vicente, CAPE VERDE ISLANDS with a CQ marker at 2152. Good Feb 4 Last heard this station as "XXU" in 1973. It used 6488 and 13047 kHz then. (DG)

8484.5 HZG Dammam, SAUDI ARABIA with a "DE HZG" marker at 2232. Poor to Fair Feb 7 (DG)

8522.5 FFL4 St Lys Radio, FRANCE sending a "CQ DE FFL2/3/4 QSX 6, 8 MHz" marker at 0044. Fair Jan 29 (SC)

8530.0 9VG SINGAPORE with a CQ marker at 1229. Into traffic at 1230. Fair Feb 15 (DG)

8636.0 HLW Seoul, KOREA with a CQ marker at 2238. Fair Feb 7 (DG)

8686.0 PKB Belawan, Sumatra, INDONESIA with a CQ marker at 1306. Very Poor Feb 5. Poor at 1233 Feb 15 (DG)

8687.6 URD Leningrad, USSR with a DE marker at 0434. Fair Feb 9 (DG)

8694.0 PKM Bitung, Sulawesi, INDONESIA with a CQ marker at 1315. Very Poor Feb 18 (DG)

10608.8 UNID station with coded 5 letter groups at 1948. Good Feb 24 (DR)

12135.0 NAM NAVCOMM station Norfolk, Virginia, UNITED STATES advising merchant shipping (after transiting the Straits of Hormuz) sailing to Non-Iranian ports, to keep 12 miles south of various islands off of the coast of Iran. Also advised shipping to keep a certain distance (latitude and longitude) from the Iranian coastline due to the fact that Iranian Naval forces patrol the said area. Ended message with a "CQ CQ DE NMN/NAM/NRK/NGR/NAR/GXH/AOK" marker at 1608. Good Feb 5 (SC)

12174.5 FDY Orleans Air, FRANCE with a VVV DE marker at 2046. Feb 3 (MAC)

12329.0 OVG12 Frederickshavn Naval Radio, DENMARK running a "VVV DE OVG" marker at 1352. Poor Jan 28 (SC)

12675.0 A4M Muscat, OMAN with a DE marker at 1251. Very Poor Feb 11 (DG)

12675.0 CLA Havana, CUBA with a CQ DE marker at 2015. Jan 28 (MAC)

12709.2 9HD Valetta, MALTA with a VVV

marker at 1255. QRM from A9M. Poor Feb 11 (DG)

12726.0 CFH Halifax Radio, Nova Scotia, CANADA sending a "VVV DE CFH" marker at 1438. Very Good Jan 28 (SC)

12763.0 DAM Norddeich Radio, GERMAN FED. REP. with a VVV DE marker at 2022. Jan 28 (MAC)

12781.5 OST5 Ostend Radio, BELGIUM with a VVV DE marker at 2024. Jan 28 (MAC)

12785.0 XSX Keelung, TAIWAN with a CQ marker at 1305. Good Feb 6 (DG)

12792.0 CLA31 Havana, CUBA sending a "CQ DE CLA QSX" marker at1446. Poor Jan 28 (SC)

12864.0 XSW Kaohsiung, TAIWAN with a CQ marker at 1300. Poor Feb 6 (DG)

12876.0 VAI Vancouver Coast Guard Radio sending a "CQ DE VAI QSX" marker at 1455. Very Good Jan 28 (SC)

12907.5 VIX Sydney Radio, NSW, AUSTRALIA sending a "VVV VIX 2/3/4/5/6" marker at 2019. Good Feb 5 (SC)

12958.5 PPO Olinda Radio, BRAZIL with a CQ DE marker at 2033. Jan 28 (MAC)

12963.5 HAR Budapest, HUNGARY with a CQ/VVV marker at 1257. Fair Feb 11 (DG)

13058.0 TEC Puntarenas, COSTA RICA with a CQ marker at 1335. Also called LQZF, Fair Feb 7. This is a new log for me. (DG)

13072.0 UMV Murmansk, USR with a DE marker at 1359. Fair to Good Feb 7 (DG)

16887.5 SPH81 Gdynia, POLAND with a DE marker at 1400. Feb 3 (MAC)

16928.4 LFX Rogaland Radio, NORWAY with a CQ DE marker of all call signs at 1518. Feb 3 (MAC)

16961.5 FUF Fort de France, MARTINIQUE with a VVV DE marker at 1408. Feb 3 (MAC)

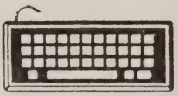
16980.4 DAM Norrdeich Radio, GERMAN FED. REP. with a VVV marker at 1727. Good Feb 4 (IM)

17026.9 FFL8 St. Lys Radio, FRANCE with a "CQ DE FFL8/9 QSX 16/22 MHZ" marker at 1732. Good Feb 4 (IM)

17079.0 HLF Seoul, KOREA with a CQ marker at 1342. Poor Feb 21 (DG)

17185.0 EAD5 Aranjuez Radio, SPAIN with a "CQ DE EAD5/EDZ6 QSX 16 MHZ" marker at 2033. Good Feb 4 (IM)

22536.9 FUF Fort de France, MARTINIQUE with a "VVV DE FUF" marker at 2043. Good Feb 4 (IM)



RTTY

3230.0 KAWN Offut AFB, Nebraska, UNITED STATES 75/850 sending coded weather forecasts at 1203. Very Good Feb 11 (SC)

4792.0 OUJ22 Aarhus, DENMARK 50/850 with coded NATO traffic at 0130. Feb 3 (MAC)

5019.7 RWW74 Moscow Meteo 50/850 sending coded meteo data with many Asian and Mid East location indicators at 0242. Good Feb 25 (DR)

5460.0 WWV45 Tangier, MOROCCO 75/425 with USIA News in English at 0015. (MAC)

6675.0 GYA Royal Navy, London, ENGLAND 75/850 sending Foxes, Count and DE GYA at 0559. Good Feb 13 (SC)

6795.0 LZM7 Orehovo, BULGARIA 50/425 with meteo data at 0210. Feb 4 (MAC)

7403.0 JMG3 Tokyo, JAPAN 50/850 sending coded meteo data at 1212. They were sending AAXX WX (a synoptic report of surface observations from a land station) with JMG used as the circuit ID. Good Jan 31 (SC)

7832.0 AFA3VT 50/170 working AFA7XI discussing the weather, fishing and bees wax at 1541. Poor Feb 9 (SC)

8044.7 FSB Interpol Paris, FRANCE Sitor A sending tones and klaxon with call sign in CW at 0020. Good Jan 24 (TM)

8150.0 SOI215 Warsaw, POLAND 50/425 sending PAP News in Cyrillic at 1043. Fair Jan 29 (SC)

9069.6 6VU Dakar, SENEGAL 50/950 sending a RY tape with call sign and "Testing" at 0235. Very Good Jan 13 (TM)

9070.0 6VU Dakar, SENEGAL 50/425 with an ID and RY test tape at 0225. Feb 14 (MAC)

9264.5 ZRH Cape Fiskantekraal Naval, SOUTH AFRICA 75/855 sending a RY tape with call sign at 0025. Very Good Jan 15 (TM)

10102.2 RFLIRT Paris, FRANCE ARQ-E3 48/850 sending repeated messages with call sign and location at 0055. Good Jan 15 (TM)

10168.4 RFTJD Libreville, GABON ARQ-E 72/850 with a single message with call sign and a "Controle de Voie" message at 0425. Good Jan 21 (TM)

10214.4 HZN Jeddah, SAUDI ARABIA 100/

830 sending meteo data with a number code and grid ident each message. Then one message with METAR reports and back to previous format at 0105. Excellent Jan 15 (TM)

10389.0 FSB Interpol, Paris, FRANCE Sitor A sending tones and klaxon with call sign in CW at 2110. Good Jan 23 (TM)

10491.5 Port Bouet, IVORY COAST (Tentative) ARQ-M2 96/850 sending messages in some type of synoptic code with times spelled out in French. References to "Port Bouet/Cotamxm", "Alphahawk" and "Charlie" at 2315. Fair Jan 19 (TM)

10551.5 GFL23 Bracknell, ENGLAND 50/425 sending coded meteo data at 1217. Used the EGRR location indicator. Fair Feb 11 (SC)

11096.2 UNID station Sitor A sending a message from BAPL-9 to Khargia, Cairo at 2247. Unclassified trafic in Spanish was also noted. Good Mar 3 (DR)

11219.6 Egyptian Embassy Washington, DC, UNITED STATES Sitor A with coded 5 letter groups to Khargia, Cairo at 2255. Good Mar 3 (DR)

11460.4 5UA Niamey, NIGER ARQ-M2 96/800 sending meteo with the NOB circuit identifier on message headers with call sign at message breaks at 0145. Good Jan 20 (TM)

12211.0 RLX Dublin, IRELAND 50/170 with Russian embassy traffic at 2049. Feb 3 (MAC)

12251.0 Y2V32 Nauen, GERMAN DEM. REP. 50/425 with ADN News in English at 2050. Feb 3 (MAC)

13022.5 CTU2 Comm Nunes Ribeiro Naval Radio, PORTUGAL 50/170 sending a weather forecast in Portugese then went into a weather warning in English at 2038. Returned to Portugese at 2041 and signed off in Portugese as "Portugal - Costa Teste Lisbno Servico DE Pilotagem Sushenso". Back to weather warnings in English at 2056. Fair Feb 6 (SC)

13084.0 NMN COMMSTA Portsmouth, Virginia, UNITED STATES Sitor A sending a ARQ phasing signal with a CW ID at 1928. Good Feb 10 (SC)

13199.6 CA17E EASTER ISLAND 50/850 with a RYRY DE CA17E test tape at 0257. Good Jan 6 (DR)

13338.0 UNID station 75/850 sending coded meteo data at 1611. Poor Feb 7 (SC)

13530.0 RVW53 Moscow, USSR 50/900 sending coded meteo data at 1602 using RUMS as a location indicator. Fair Feb 9 (SC)

13664.8 6VU Dakar, SENEGAL 50/850 sending meteo data with the DAA circuit identifier at 0240. Good Jan 19 (TM)

13844.5 RFQP DJIBOUTI ARQ-M2 96/850 sending call sign and a "Controle de Voie" message at 2050. Good Jan 19 (TM)

14373.0 YIL73 Baghdad, IRAQ 50/425 sending INA News in English at 1614. The ID of INA was used after ZCZC. Poor Feb 12 (SC)

14573.0 9HC67 MALTA 50/425 sending JANA News in Arabic at 1626. Good Feb 12 (SC)

14604.4 RFHI Noumea, NEW CALEDONIA ARQ-M2 96/850 sending call sign and a "Controle de Voie" message at 1918. Good Jan 1 (TM)

14879.3 JMG Tokyo, JAPAN 50/850 sending meteo data and call sign at 0300. Good Jan 18 (TM)

14944.5 CLP1 MFA Hanava, CUBA 75/425 sending traffic to Nicaragua in hand sent RTTY. Signed off at 1635 with Embacuba. Good Feb 4 (SC) *Steve adds that if this is CLP1 they were off their assigned frequency of 14945.5 kHz. I have noticed that CLP1 moves around quite a bit from their "assigned" frequencies. I guess it depends on who (radio operator?) assigns them their frequencies. Also most utility stations stick to their assigned frequencies but have been known to move slightly in frequency to get away from other stations that are causing QRM. (Ed)*

15844.8 PZP Zandery, SURINAM 50/500 sending coded traffic with "ZCZC PZP" at each message lead. Good Jan 20 (TM)

16117.2 UNID station Sitor A using the MSA circuit identifier with coded 5 letter groups at 0047 followed by telex traffic in Spanish at 0152. Fair Jan 3 (DR)

16322.5 RFTJ Libreville, GABON ARQ-M2 sending call sign and a "Controle de Voie" message at 0400. Good Jan 18 (TM)

16348.0 CLN530 Havana, CUBA 50/425 with TASS News in English at 1500. Feb 3 (MAC)

16878.0 URB2 Klaipeda, LITHUANIAN SSR 100/850 with a meteo report in Cyrillic at 1350. Feb 3 (MAC)

16915.0 FUX St. Denis Naval, REUNION ISLAND 75/850 with a meteo report at 1404. Feb 3 (MAC)

17412.0 GHH Jamestown, St. HELENA 50/425 with a RY test tape at 1409. Poor with CW QRM from KKN39. Feb 1 (MAC)

18220.3 CNM Rabat, MOROCCO 50/425 sending a list of MAP transmissions and target areas at 1530. Fair to Good Jan 15 (TM)

18292.2 Huban, KUWAIT 50/850 sending mainly KUNA Middle East news in English at 1530. Very Good Jan 15 (TM)

18294.6 SHC Stockholm, SWEDEN ARQ-M2 96/425 sending traffic to Ho Chi Minh City in Vietnamese at 1600. However message number 159 was sent in English confirming the flight of 15 persons leaving VIETNAM Jan 31 via Moscow to Copenhagen with an ETA of 0955 Feb 1. Instructions for collecting tickets and Danish Visa and to meet with Swedish representative of the EAC in Denmark. Good Jan 22 (TM)

18309.9 RDT57 Moscow, USSR 50/425 with a "RYRY REM-57 RAD-30 RED-52 RNC38 RFD-53 RTU-47 TASS" tape at 1545 with TASS news in French starting at 1630. Fair at 1545 improving to Fair to Good at 1630. Feb 20 (DR)

18362.8 9PL Zaire Centre, ZAIRE 50/425 sending a RY tape with "DE ZAIRE CENTRE - LINE TEST" at 2045. Very Good Jan 20 (TM)

19126.9 UNID station 50/425 with TASS News in Spanish at 1437. Fair Dec 31 (DR)

19404.5 TCC2 Interpol Ankara, TURKEY Sitor A with a message regarding Iranian Nationals using false passports. Also a reply to a request for dossier on an individual with no arrest or record info in Turkey at 1645. Good Jan 23 (TM)

19414.5 RFLIRT Paris, FRANCE ARQ-E3 48/850 sending call sign and location info at 1730. Good Jan 15 (TM)

19747.4 6VU Dakar, SENEGAL 50/430 sending meteo data with the DAA circuit identifier at 1830. Good Jan 15 (TM)

20351.2 9RE Lubumbashi, ZAIRE ARQ-M2 96/350 sending Gecamines commercial traffic to Brussels at 1320. Good Jan 16 (TM)

20784.4 CLP1 MFA Havana, CUBA 50/425 sending a Prensaminrex bulletin in Spanish at 1455. Good Feb 19 (DR)

20884.8 CLP1 MFA Havana, CUBA 50/425 with a Prensaminrex bulletin in Spanish at 1734. Good Feb 24 (DR)

22887.9 6XZ Czech Embassy Beijing, CHINA 75/425 with embassy traffic in Czech at 1547. Good Dec 29 (DR)

22952.7 UNID station 100/300 sending ADN News in German at 1527 Good Dec 29 (DR)

24299.9 Y7A90 MFA Berlin, GERMAN DEM. REP. 50/425 sending a RYRY test tape at 1519. Good Dec 29 (DR)

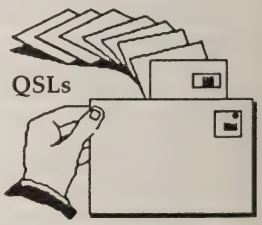
25220.7 PWX UNID location 75/170 sending RYRY 6464 tape to HDN Quito Naval, Ecuador at 2155. Fair Dec 28 (DR)

25223.0 UNID station Sitor A sending coded 5 letter group embassy traffic to embassies in Amlimape (Lima, Peru) Ammexico (Mexico City, Mexico) Ambrasil (Brasil) Ambuenos (Buenos Aires, Argentina) Amcaraca (Caraccas, Venezuela) and Amguatem (Guatemala) at 1456. Telex traffic in German and English was noted. Poor to Fair Dec 27 (DR)

25417.7 UNID station ARQ-E 96/170 with traffic in German and mention of Brasilia and Bonn at 1534. Possible stations could be DMK Bonn, GERMAN FED. REP., German Embassy Pretoria, SOUTH AFRICA or DMK 610 German Embassy Brasilia, BRASIL. Fair Feb 19 (DR)

26158.0 UJY Kaliningrad Radio, USSR 50/170 with a "RYRY DE UJY UJY ANS 25102,5" test tape at 1514. Fair Jan 6 (DR)

27368.7 HBD20 MFA Berne, SWITZERLAND Sitor A with embassy traffic in French at 1612. Fair Feb 22 (DR)



1989 QSL Survey

61 reports were sent out to Marine Coastal Radio stations (both CW and Phone) with 41 verifications received (66%) (with cards from WOO WNU WOM DAN WLO KMI VCS ZLP5 ZLB5 XSX XSG XSW2 EAD6 VIP3 JCT JOR JNA XSW 4XO KLB OXZ8 PCH60 OST VIS26 VAI IRM PJC and SAG. Mostly original and many beautiful (!) station cards as well as some PFC's. Other replies were by letter. (TW)

MARITIME

A8QI MV Marra Mamba, Ore Carrier using 22193 kHz. Received a PFC/Telex copy in 66 days for $1 US. (AM)

KGBE GT Chevron Arizona, Tanker using 16673.5 kHz. Received a PFC/Letter in 27 days for mint stamps. (AM)
OYSN2 MV Margrethe Maersk, container Liner using Sitor A on 16672.5 kHz. Received a PFC/Letter/Photo in 38 days for $1 US. (AM)
PGEM MV Nedlloyd Barcelona, General Cargo vessel on 16673.5 kHz. Received a PFC/Photo in 43 days for $1 US. (AM)
PHVF MV Nedlloyd Nassau, General Cargo vessel on 16673.5 kHz. Received a PFC/Photo in 31 days for $1 US. (AM)
SVBO MV Reefer Jambu, Reefer vessel using Sitor A on 12504.5 kHz. Received a PFC/Letter/Photo in 45 days for $1 US which was returned. (AM)Y5CC MS Arkona, Cruise Ship using Sitor A on 16673 kHz. Received a PFC/Letter/ Cruise Brochure in 38 days for $1 US. (AM)

CONTRIBUTOR & LOCATION		RECEIVING EQUIPMENT
Tom Williamson Guelph	(TW)	Kenwood R1000, 80' balcony wire antenna.
Robert Ing Toronto	(RI)	Sony ICFPro80, 108" vertical whip antenna.
Dan Greenall London	(DG)	Panasonic RF3100 and longwire antenna.
Tom Manley Scarborough	(TM)	Kenwood R5000, Info Tech M6000, Alpha Delta sloper and Mackay Dymek DA100D antennas.
Stan Cepukas Wingham	(SC)	Kenwood R5000, Drake SSR1, Realistic DX400, Info Tech M600A, Info Tech M6000, Info Tech M605 and 60' inverted "V" antenna.
Iqbal Mulani Bolton	(IM)	Icom R71, Universal M7000 Communications Terminal, MFJ 959B preselector, Eavesdropper antenna.
Robert Ross London	(RR)	Sony ICF2010, Kenwood TS430S, longwire and vertical antennas.
Mark Coady Toronto	(MAC)	Magnavox D2999, Hal CWR6750 Telereader, and Sony AN1 and L400B active antennas.
Alexander Mason Ajax	(AM)	Icom R71A, AEA CP1 computer interface, Dressler ARA 30 active antenna.
David Ross Hamilton	(DR)	Drake R7, Universal M7000 CommunicationsTerminal, Info Tech M610 RTTY Tuning Scope, Datong FL3 audio filter, 50' inverted "L" antenna.

This months question comes from Robert M. Senkmajer who asks the following question: *"What signals can be found between 30 and 34 MHz?"* From the local Ontario perspective, government, commercial businesses and paging systems are the main users of the 30 to 34 MHz frequency range. All stations in this frequency range use the FM mode. With the high sunspot activity at present, you may even manage to hear distant stations in languages other than English. The frequency range of 30 to 50 MHz (VHF Low Band) is by far, less populated today compared to the 150 to 174 (VHF High Band) or 410 to 512 MHz (UHF Band).

If you have questions that you would like answered, send them in and I will answer them in this column.

I would like to welcome first time contributor Iqbal Mulani to the pages of Monitoring Services.

I would like to thank all of this months contributors once again for submitting their loggings and material.If you have contributions be it loggings, QSLs, QSL or station information, or other related information, please send your contributions to the address in the column masthead and your contributions will appear in the following months column.

If you have any suggestions to improve on this column, let me know and I will consider your suggestion(s).

Until next month, 73's David Ross

The AERO/MARINE BEACON GUIDE

Review by David Ross

The **Aero/Marine Beacon Guide** 1990 Edition has just been released. This fine publication is current and THE reference publication I refer to when tuning the aero and marine beacon stations.

The 1990 edition of this publication contains the following items:

Cross index by call sign which I find useful in identifying new catches.

Listing of active low frequency amateur beacons (lowfers).

Listing of States, provinces etc. within each country.

Listing of Ground Wave Emergency Network (GWEN) stations with frequency listing and station information.

A listing of beacons in Canada and the United States in the 190 to 535 kHz range arranged in frequency order showing frequency, call sign, audio signal information, location, operating agency, coordinates, elevation and power output.

A listing of beacons for the rest of the world in the 190 to 535 kHz range arranged in frequency order showing frequency, call sign, audio signal information, location, operating agency, coordinates, elevation and power output.

List of all beacons in the 1600-1745 kHz frequency range.

An article on Radio Propagation by Michael Mideke.

An article on QSLing by Steve McDonald.

List of authorized future beacons (no frequency assigned).

An article on Notes About Beacons and Their Use in DX Listening by Sheldon Remington.

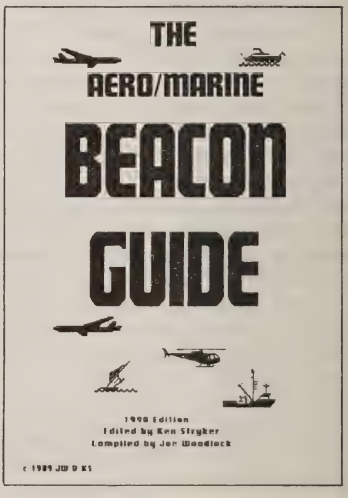
And rounding out this publication is information on how to receive the annual update, a description of terms used in the listing format, a country list with the code name used for each country, special codes used in the beacon listing, and a phonetic sound chart with sounds for each letter and number.

This is the most complete and up to date publication covering the subject of beacon stations that I have seen. Not only does it cover North America, but the rest of the world as well with the exception of Africa and Europe. This is probably due to the fact that it is extremely difficult if not impossible to hear low power beacon stations from those two areas in North America.

With new beacons coming on the air and the steady frequency and/or call sign changes routinely taking place, a publication such as this is a necessity if not a requirement if you are serious about monitoring the beacons.

The Fall 1990 update is scheduled to be released during November 1990.

This publication is accurate and up to date and comes pre-punched for a 3 ring binder. The Aero/Marine Beacon Guide 1990 Edition is available for $15.00 in US funds from: **Ken Stryker, 2856-G W. Touhy Ave., Chicago, Illinois 60645, USA.**



Andrew W. Reid
R.R. 7
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K9J 6X8

SWL/DX PROGRAMMES

The following programmes offer information on DX news, receiver reviews, radio features, tuning tips, propagation, satellites, computers and radio theory. Different programmes are aired once a week with repeats, except Radio Budapest Calling DX'ers which has two different programmes per week.

Local Day/
UTC *Programme*, Station, Frequencies

MONDAY

1235 *Radio World* BRT International 21820
2352 & 0152 *DX Pgme* R. Moscow 9530, 9685, 11735, 11950
0130 *Calling DXers...* R. Budapest 9835, 11910
0200 *DX Party Line* HCJB 9745,11795,15155
0213 & 0328 *%RBI DX Club* Radio Berlin International 11785 fortnightly
0600 *DX Party Line* HCJB 9745,11795,15155
% RBI DX Club also at 2213, 0013, 0128, 0258, 0413 fortnightly

TUESDAY

1115 *Waveguide* BBC World Service 9515, 11775, 21660, 25750
1233 *SWL Digest* Radio Canada International 9635, 11855, 17820
1542 *Sweden Calling DXers* Radio Sweden 17880, 21610
2230 & 0200 *World of Radio* R.for Peace Int'l 13660, 21566
0130 *Calling DXers...* R. Budapest 9835, 11910
0242 *Sweden Calling DXers* Radio Sweden 9695, 11705

WEDNESDAY

2215 & 2345 *DX Pgme for Radio Enthusiasts* Radio Sofia 11680, 15330
0127 & 0327 *DX Chat* Radio Prague 5930, 7345, 9540, 11990, 13715
0130 *Waveguide* BBC World Service 5975, 6175, 7325, 9590, 9915, 12095, 15260
0200 *Ham Radio Today* HCJB 9745,11795,15155
0345 *DX Pgme for Radio Enthusiasts* Radio Sofia 11735
0600 *Ham Radio Today* HCJB 9745, 11795, 15155
0752 *Media Network* R. Netherlands 9630, 9715

THURSDAY

1052 * *Media Network* R. Netherlands 6020,11890
2300 *World of Radio* WRNO 15420
0052 * *Media Network* Radio Netherlands 6020, 6165, 11740
0230 *Calling DXers...* R. Budapest 9835, 11910
0352 * *Media Network* R. Netherlands 9590,11720
* *Media Network* also at 1452, 1652, 1852, 2052

FRIDAY

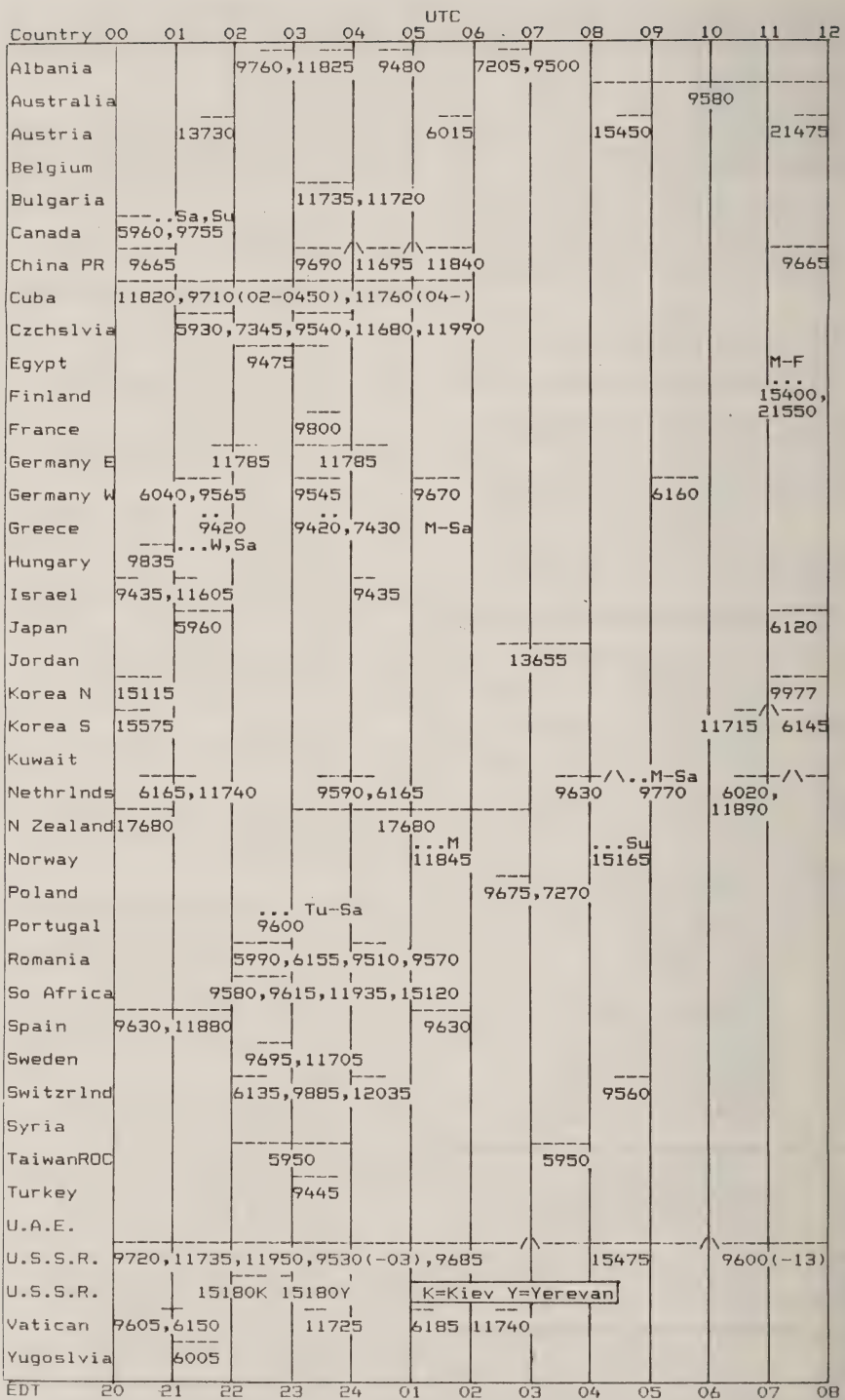
2145 *DX Pgme for Radio Enthusiasts* Radio Sofia 7155, 9700
2330 *World of Radio* R. f. Peace Int'l 13660,21566
0030 *DX Pgme for Radio Enthusiasts* Radio Sofia 9700, 11680
0130 *Calling DXers...* R. Budapest 9835, 11910
0300 *World of Radio* WRNO 6185

SATURDAY

1000 *Pacific DX Magazine* KTWR 11805
1130 *Bonaire Wavelengths* Trans World Radio 11815, 15345
1236 *Radio World* BRT International 21820
2106 *Radio World* BRT International 9925
2110 + *Communications World* VOA 11760, 15205,15410, 15580, 15600, 17785
2145 @ *Swiss SW Merry-Go-Round* S.R.I. 6190
2200 *Listeners Corner* Radio Vilnius 11770, 12060, 17665, 17690
2220 *DX Corner* Voice of Turkey 9445 fortnightly
2330 *World of Radio* WRNO 15420
2335 *SWL Digest* Radio Canada Int'l 5960, 9755
2336 *Radio World* BRT International 9925
0035 # *DXers Unlimited* R. Habana Cuba 11820
0110 + *Communications World* VOA 5995, 6130, 9455, 9775, 11580, 15205
0215 @ *Swiss SW Merry-Go-Round* S.R.I. 6095, 6135, 9725, 9885,12035, 17730
0235 # *DXers Unlimited* R. Habana Cuba 11820
0238 *DX Corner* Radio RSA 9580,9615,11935
0330 *Bonaire Wavelengths* Trans World Radio 9535, 11930
0320 *DX Corner* Voice of Turkey 9445 fortnightly
0415 @ *Swiss SW Merry-Go-Round* S.R.I. 6135, 9725, 9885, 12035
0750 *Waveguide* BBC World Service 9640
+ *Communications World* also at 1010, 1210, 1710
@ *Swiss Shortwave Merry-Go-Round* also at 1345, 1545, 2115
#*DXers Unlimited* also at 0435, 0635

SUNDAY

1030 *Communicator* Radio Australia 9580
1135 *Austrian Shortwave Panorama* R.Austria Int'l 21490
1300 *Shortwave Feedback* Radio Korea 9750
1400 *ANARC SWL Ham Net* KW3F 7240 SSB
1430 *Communicator* Radio Australia 9580
1435 *Austrian Shortwave Panorama* R.Austria Int'l 21490
1438 *DX Corner* Radio RSA 21535, 25790
1835 *SWL Digest* RCI 13670, 15260, 17820
1935 *DX Spot* Spanish National Radio 15375
2130 *World of Radio* WRNO 15420
2135 *SWL Digest* RCI 15325, 17875
2215 & 2345 *DX Pgme for Radio Enthusiasts* Radio Sofia 11680, 15330
2307 *SWL Digest* Radio Canada International 9755, 11730
2325 *DX Corner* Radio Japan 11835
0030 *Shortwave Feedback* Radio Korea 15575
0035 & 0135 *DX Spot* Spanish Nat'l Radio 9630, 11880
0125 *DX Corner* Radio Japan 5960
0238 *DX Corner* Radio RSA 9580, 9615, 11935
0345 *DX Pgme for Radio Enthusiasts* Radio Sofia 11735
0530 *Waveguide* BBC World Service 5975, 9640
0535 *DX Spot* Spanish National Radio 9630

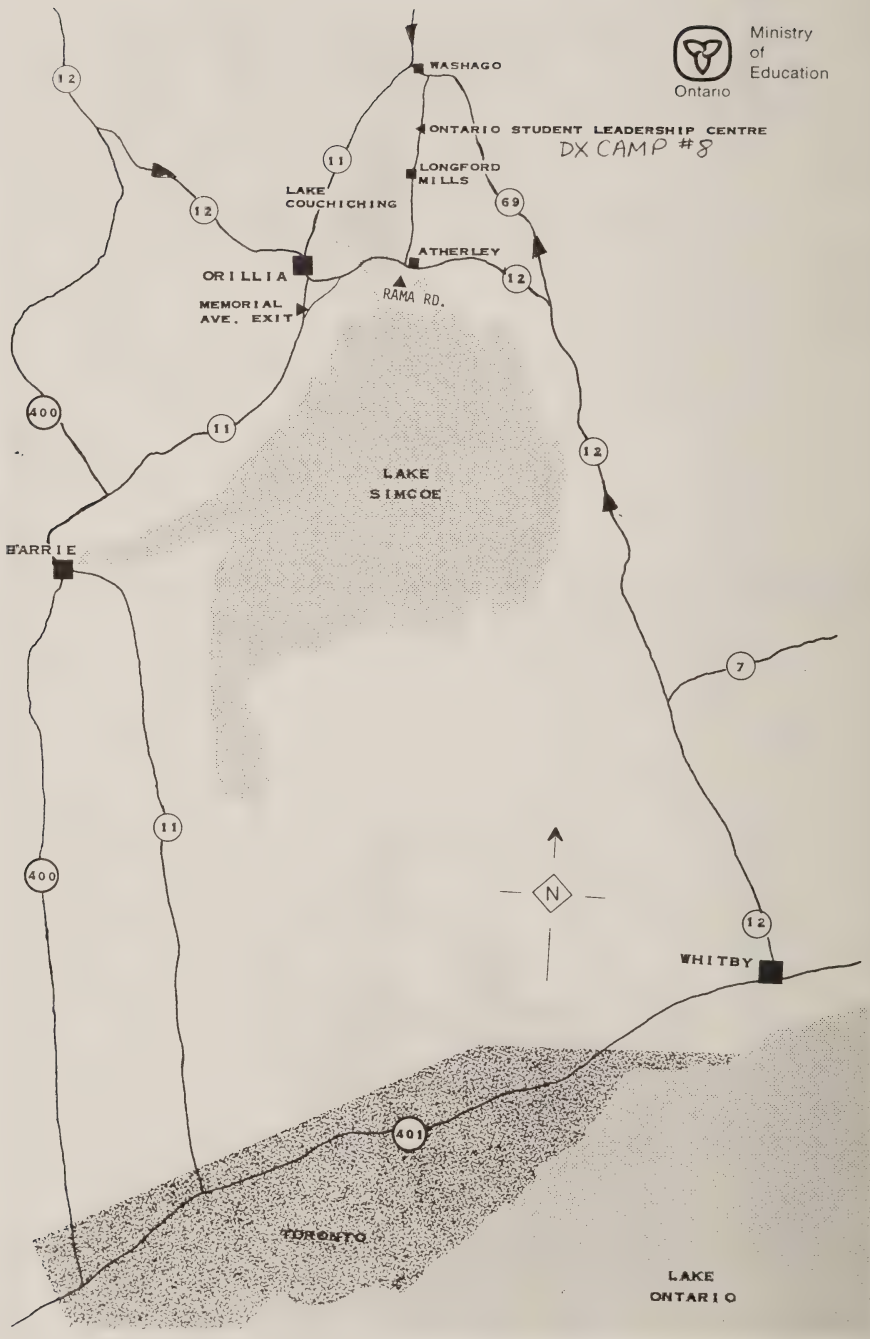


Ivan Grishin, 1079 Moorelands Crescent, Pickering, Ont. L1W 3K3

DX CAMP # 8

May 19 to 21, 1990

Ontario Student Leadership Centre
Longford Mills, Ontario


Ministry of Education
Ontario
WASHAGO
ONTARIO STUDENT LEADERSHIP CENTRE
DX CAMP #8
LONGFORD MILLS
LAKE COUCHICHING
ATHERLEY
ORILLIA
RAMA RD.
MEMORIAL AVE. EXIT
LAKE SIMCOE
BARRIE
WHITBY
N
TORONTO
LAKE ONTARIO
12
11
69
400
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401

DX CAMP # 8 Saturday, May 19 to Monday, May 21
The Ontario Student Leadership Centre, Longford Mills, Ontario

REGISTRATION FORM

Please print or type.

NAME : _____
ADDRESS : _____
PROVINCE/STATE : _____
POSTAL CODE/ZIP : _____
TELEPHONE (H) : _____
(B) : _____

If you wish to share a cabin with friends or family please list their names below
_____
_____
_____
_____

Check Days You Plan To Attend	Meals Required	Price Breakdown
❑ Saturday, May 19	❑ Lunch ❑ Dinner	$25.00 meals & accomodation
❑ Sunday, May 20	❑ Breakfast ❑ Lunch ❑ Dinner	$35.00 meals and accomodation
❑ Monday, May 21	❑ Breakfast	$10.00 meals
Cost is $70.00 for the full weekend, food and accomodation included. Enclose payment covering number of people in your party multiplied by the number of days attending. Amount enclosed $_____		

– – – – – – – – – – – – – – – – – – may be detached – – – – – – – – – – – – – – – – – –

DEADLINE FOR REGISTRATIONS : MAY 11, 1990

Cheques/money orders should be made payable to "Ontario DX Association".

Mail to : Ontario DX Association
P.O. Box 161, Station A
Willowdale, Ont. M2N 5S8

ACCOMODATION : Shared cabins for singles. There are just a few cabins available for couples/families.

BRING : Bedding or sleeping bag, receiving equipment, antenna wire, table lamp, power bar, snacks.

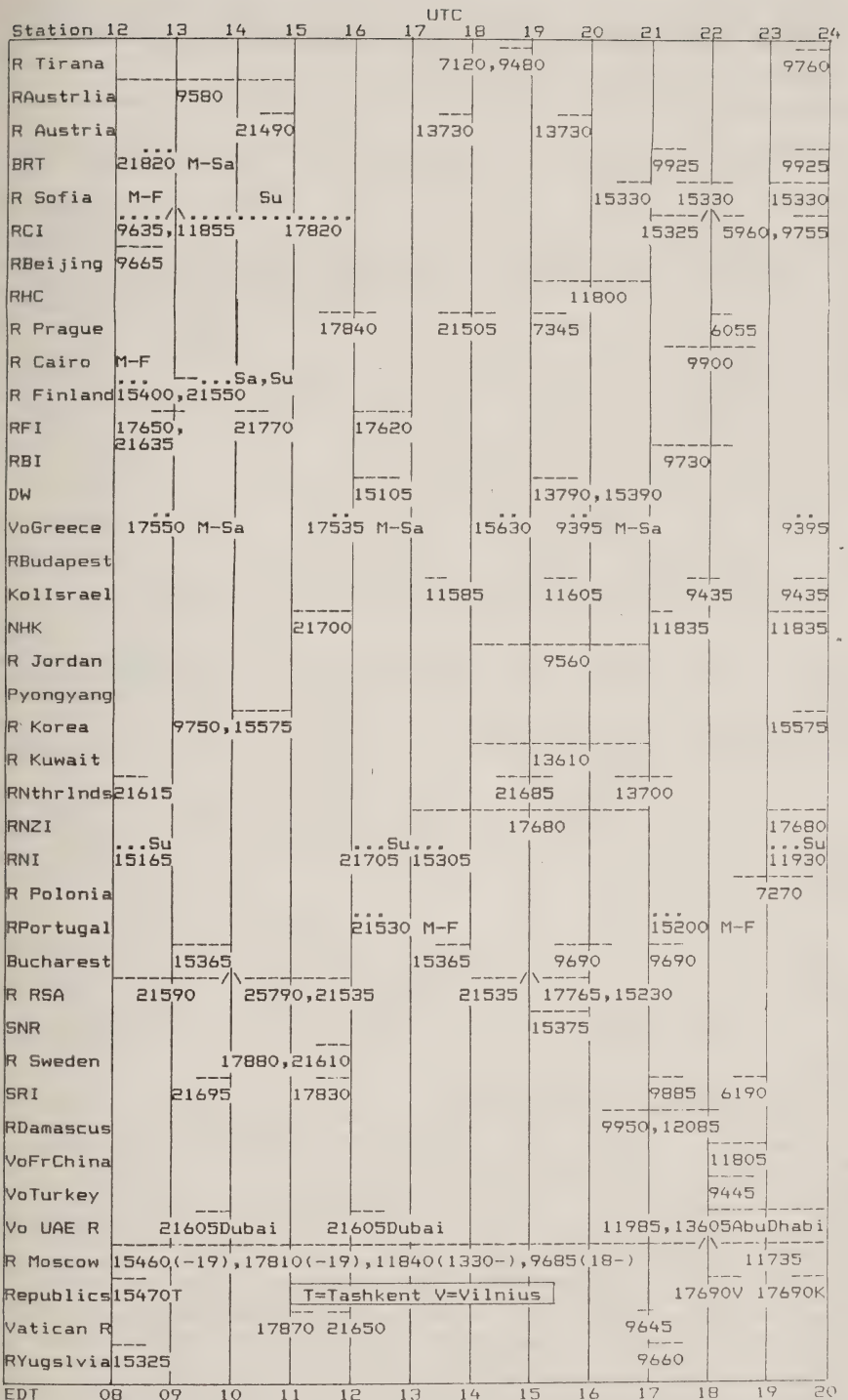
NOTE : Alcoholic beverages are not allowed on the premises.

* Anyone needing a ride should contact club headquarters so we can assist you.

* Items for sale : Don't forget to bring along any items you would like to sell (receivers, accessories, books, etc.). We will have tables set aside for this.

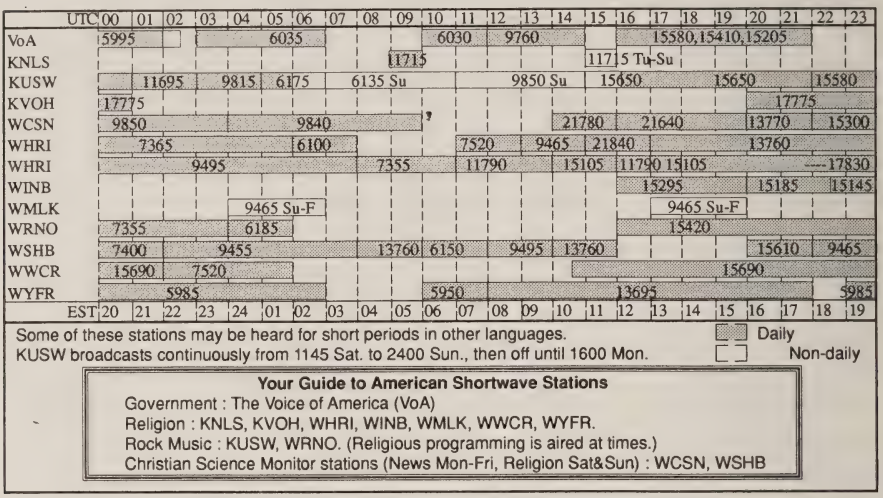
The DX Camp takes place on the 150 acre site of the Ontario Student Leadership Centre which is operated by the Ministry of Education (Special Projects). It is located on the east side of Lake Couchiching, about 160 km north of Toronto.

WORLD ENGLISH SURVEY



USA ENGLISH SURVEY

Ivan Grishin, 1079 Moorelands Crescent, Pickering L1W 3K3

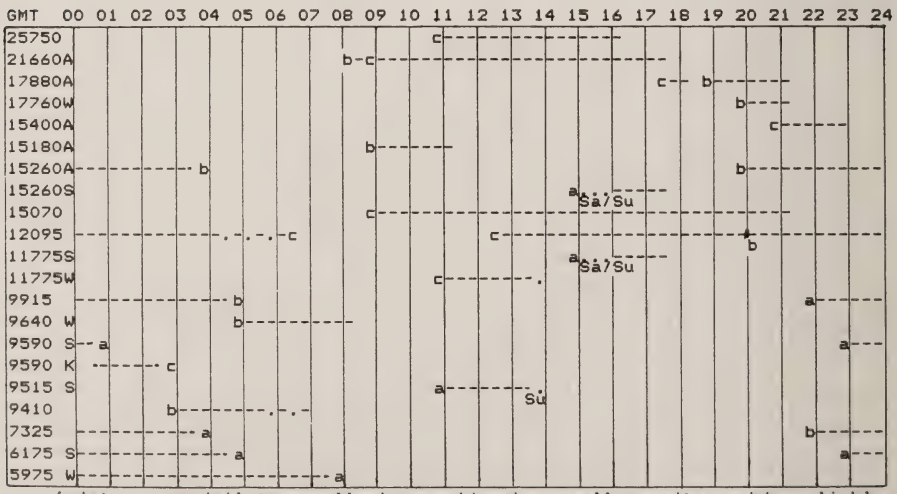


Your Guide to American Shortwave Stations

Government : The Voice of America (VoA)
Religion : KNLS, KVOH, WHRI, WINB, WMLK, WWCR, WYFR.
Rock Music : KUSW, WRNO. (Religious programming is aired at times.)
Christian Science Monitor stations (News Mon-Fri, Religion Sat&Sun) : WCSN, WSHB

BBC WORLD SERVICE

Andrew W. Reid, R.R. 7, Peterborough K9J 6X8



.-.-fade;.....nondaily;a=excellent reception;b=normally good;c=weak/unreliable relays: A=Ascension Is.(Atlantic);C=Cyprus(East Mediterranean);F=Singapore(Far Eastern);I=Seychelles(Indian Oc.);K=US(N.Am);S=Canada(N.Am);W=Antigua(Carrib.)

A PHONE- TAPE RECORDER

A Convenient Interface for Taping the DX-Change

By John Grimley

The main difficulty with the DX–Change is getting it all down. Since each edition usually lasts more than ten minutes, it takes a lot of pencil pushing to get all that new information into a usuable form. And when you've hung up, you realise that you did not write down the frequency of that Tristan Da Cunha test after all!

Here's a nice gizmo that will put an end to all that. It's the Archer Telephone Recording Control, marketed by Radio Shack, catalogue number 43-236A, price $29.95 (on sale recently for less).

A deceptively simple little box, one end connects to your phone jack (you will need a splitter, because surprisingly one is not included), the other to the 'mic' input of your tape recorder (via a miniature audio plug). Switch the box in the middle (which contains some neat circuitry) to 'record' and you are ready to tape both sides of any incoming or outgoing message. Audio quality is considerably better than either a mike placed at the earpiece or a phone suction pick-up.

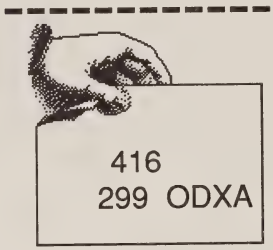
If you have a recorder with a 'remote mic' socket, then the third plug will allow you to run the set-up unattended; the tape recorder will start recording when the phone is picked up and stop when you hang up - automatically!

The control unit requires no power supply - it uses the phone system's current.

One word of warning, do not use your Hi-Fi tape machine. Since the capstan and pinchwheel may be permanently engaged in the automatic mode, you risk some wow and flutter due to possible indentation of the pinchwheel.

Now you can listen to the detail in each DX-Change as often and whenever you like (especially useful for SWL's outside the Toronto calling area). Unfortunately, it doesn't work in reverse; you cannot use it to send your own prerecorded message down the phone. But then all you need to do is hold your speaker close to the mouthpiece. Incidentally, if you use this method for sending your own message to the DX-Change, precede it with a 3-2-1-0 count down, to assist editing at the other end.

"This is John Grimley in Scarborough, Ontario wishing you good listening, and please leave your own message at the sound of the tone!"



Collector's Corner

The first member to step forward to use this space is Bill Dulmage, RR # 3, Colborne K0K 1S0.
"I collect:
* Old and new coverage maps (AM-FM-TV) - photocopies are okay.
* Old and new rate cards (AM-FM-TV) - photocopies okay.
* Promotional items such as stickers, buttons, pens, lighters, sales kits, radio personality and TV show photos, etc.
* Business cards, airchecks, ratings data..."

If you want to use this space, send your note to HQ.

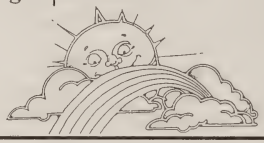
Reporting Unidentified Languages

by Cedric Marshall

Listeners who often contribute to loggings columns often run into situations where they submit a logging of a known station broadcasting in an unknown language. In such cases, it is tempting to refer to the WRTH or some other reference and simply report whichever language is listed for that time and frequency. Alternatively, listeners of foreign domestic stations (which broadcast primarily in local languages) find it easy to assume that the language they're hearing is the language of that country.

Personally, I feel strongly that a logging submitted to a column editor should be a reflection of one's own observations, not what is listed in a reference. Thus, if you are listening to a station which you know is Radio Free Europe in a language which the WRTH says is Polish, don't report it as Polish unless you recognise yourself that is actually the case. Likewise, don't report Radio Botswana as broadcasting in Setswana, or Radio Zanzibar in Swahili, unless you have the ability to recognise Setswana or Swahili in a non-radio context, such as when overhearing two people talking on the street. Don't report hearing Vietnamese from a regional station in Vietnam unless you can distinguish Vietnamese from other languages such as Laotian or Khmere. Nor would a report saying "presumed Vietnamese" be the least bit helpful: all it implies is that the listener assumes Vietnamese is being used because a reference says so, or for some other reason he thinks that the station ought to be in that language, but he can't confirm that they actually are. Finally, of course, no claim should be made regarding the language used by a station for which there is only threshold audio, without at least the occasional word.

If you send in a logging of a station for which you can't personally identify the language, the best suggestion is to report it as broadcasting in an unknown language or, you can be more specific, perhaps "East European language" or "Asian tonal language". A useful abbreviation used by some is "lang", meaning "unidentified language". Also, be careful when referring to an unidentified African or Asian language as a "dialect" or "vernacular". Rather in being a dialect or vernacular, it is possible that what you heard might be the pure form of the language which is as rich, old and well established in its own area as English is for us. Perhaps "unidentified local language" might be a much more appropriate term. ❑



Solar Trivia

by Cedric Marshall

The vernal (spring) and autumnal equinoxes, March and September 20th or 21st, are the transition dates between the seasons of long days with short days (fall and winter) and those of long days with short nights (spring and summer). It stands to reason, therefore that on these in-between days there should be exactly equal amounts of daylight and darkness.

However, if you check the sunrise and sunset times fir these dates published in local newspapers, you will find that the time between sunrise and sunset is slightly longer than the anticipated 12 hours. (About 10 minutes longer in Toronto, for other places, the discrepancy will vary with latitude.) The reason is that 12 hours is the interval from the time when the middle of the sun appears on the horizon at dawn until the time when the middle of the sun passes below the horizon at dusk. The published sunrise and sunset times however are the times when the top of the sun first appears at dawn and the time when the sun totally disappears at dusk. Thus the interval between the published time are longer that 12 hours.

In a relate vein, low-band DXers sometimes put great stock in correct to the minute tables of sunrise and sunset times in target areas. One should realise that it is not these exact times which are important. For one thing, the sunlight activated D-layer, which

absorbs low frequency signals, does not appear or disappear instantly at dawn or dusk; it takes time to build up, and time to decay. Secondly, because this layer is quite high, (75KM or more) above the earth's surface, it "sees" direct sunlight before the sun appears and after it disappears at an observer's location on the surface directly below. Thirdly, signals which reach us from distant locations are not normally directed straight up from the transmitting antenna; instead, they leave the antenna at an acute angle, sometimes only a few degrees, relative to the earth's surface. The region in which the signal interacts with the D-layer, instead of being at the station's location, can thus be a considerable distance downrange along the great circle path from transmitter to receiver. It is the impact of solar radiation on this hard to predict region, rather than at (or directly above) the transmitter site, which is of importance to the low-band DXer.❑

Using the Drake R7A as a Frequency Counter

by Cedric Marshall

One of the interesting features of the Drake R7/R7A which perhaps has not been noticed by many DXers since it is not directly involved with reception, is that this receiver can be used as an outboard digital frequency display (up to 150 MHz) for another piece of equipment. Possibly the manufacturer included this capability to permit the receiver to double as an accurate frequency counter for alignment jobs and other test bench projects. I have been using it successfully for some time to provide digital readout accuracy to two fine tube receivers, a Hammarlund HQ - 180A and an RCA CR - 91A.

The most important part of the hook up procedure is to equip the tube receiver with a frequency sensitive output which can be used to drive the counter. This can be accomplished by installing a "pick-up loop", which is simply a length of insulated wire wound around the connection points and wiring related to all of the oscillator coils. The wire should be reasonably thin and flexible, as it will have to be wound in close proximity to the receiver circuitry. One end of the wire is clipped and secured to the end of the receiver, and the other is connected to the centre conductor of a piece of coax (one of the small sizes is best for convenience), which is then fed out from the receiver. It is important to note that there is no direct electrical contact whatsoever between the hook up wire and the receiver circuitry; the signal generated in the wire by induction is sufficient to drive the counter.

The coax, with the shield grounded to the receiver chassis, can be fed directly into the "count" port on the Drake's rear panel via a phono plug. If you have more than one radio, the coax leads from each receiver can be fed into a rotary switch which can then be used to select the signal to be fed into the Drake. When the "Count" switch on the front panel is depressed, the digital readout displays the frequency of the incoming signal, which is the tube rig's frequency plus its IF. (735 kHz for the CR - 91A and 455 or 3035 kHz depending on the band selected for the 180 - A). Subtract the IF and presto, you have overcome the only major shortcoming of some of the excellent old tube receivers. Incidentally, this operation does not alter the frequency to which the Drake itself is tuned. When the "Count" button is depressed again, the display will then revert back to the Drake's own frequency.

For those who are not in the mood for mental gymnastics during DX sessions at five o'clock in the morning, a table can be made which will help with the adding or subtracting the 455 kHz, 735 kHz or what ever your tube receiver's IF happens to be. No, it is not necessary to cross reference every frequency from one end of the spectrum to the other, 100 kHz blocks are quite sufficient. You're all intelligent so you can take it from there, right? ❑

John Fisher
47 Nicholson Crescent
Amhertsview, Ontario
K7N 1W9

QSL ALBUM

Since the early days of radio, many stations have sent out colourful cards and letters to listeners in response to their reports of reception. The QSL Album tells you which verifications have been received by our members.

If you are a fan of QSL's from pirate broadcasters, then this month's QSL Album is for you. Along with an excellent assortment of QSL's from North American pirate stations, we also have a number of reports from European pirates located in Ireland, the Netherlands, Scotland and Italy. There exists some uncertainty about the Italian station, European Christian Radio, as to whether it is a legal operation or not. It is listed in the WRTH as a private operation, although it has been reported in other DX journals as a pirate operation. In any case, it is not heard very often in North America.

Regular reporter Robert Ross checks in with a couple of rare QSL's from Soviet regional stations, Radio Arcangel and Radio Tbilisi, which were received direct from the station. It's very rare to get a reply from a USSR regional station that does not broadcast a "foreign service", such as Vilnuis, Kiev, Tashkent or Riga. In years past these stations would occasionally reply to Russian language reports, but these were the exception rather than the rule. Robert did not indicate it, but I assume that his reception reports were in English. Perhaps these replies a little bit of glasnost in our hobby.

Former ODXA editor Richard McVicar sent in a nice report and letter from his new QTH of Costa Rica. He mentions that he is living only a few blocks away from powerhouse Radio Reloj's transmitter site, so that his reception is spoiled by zillions of Reloj spurs and mixing products. I hope that your upcoming visit to the back country results in some better reception. If you would like to drop Richard a line his address is c/o Instituto de Lengua Española, Apto. 100, 2350 San Francisco de dos Rios, San José, Costa Rica. ◆

ADMIRALTY ISLANDS (PAPUA NEW GUINEA)Radio Manus 3315 personal letter apologising for not having QSL cards in 67 days for mint stamps, v/s Eluin Sereman, Acting Station Mgr(D'Angelo)

ASIATIC RSFSR Radio Moscow 12010 & 15425 via Petropavlovsk-Kamchatsky card, newspaper and material on Trotsky in 62 days (Carson)

AUSTRIA Radio Austria 9870 "Traditional Costume" card, report forms and stickers in 10 days (Humenyk)

BELGIUM BRT 21810 "Brussels Univ. Library Bldg.", map of Belgium and info on BRT in 62 days for 2 IRC's (Carson) *see illustration on next page*

BIAFRA (NIGERIA) NBC - Enugu 6025 prepared card and letter in 96 days for follow-up and $1 US, v/s L. Nnamuchi, Asst. Chief Engineer (D'Angelo)

BOLIVIA Radio Panamericana 6106 multicolored "Map" card and letter in 20 days for $2 US and Canadian stamps. v/s Daniel Sanchez Rocha (Csorbay)

BOTSWANA Radio Botswana 4830 "Herdsboy Milking Cow" card in 6 weeks for $1 US, v/s Ted Makgekgenene, Chief Engineer. Freq reported was 4830 (Riddell)

BRAZIL Radio Suriname 17755 via Radio Bras "Flowering Tree" card (Humenyk)

Swiss Radio Int'l 17730 via Radio Bras "Berne-The Old Town" card and sked in 16 days (D'Angelo)

BULGARIA Radio Sofia 9700 full data "Pamporovo" card, letter about Gold Diploma,

program schedule and report cards in 2 months (Humenyk) 7115 "Town of Aprilzi" card and other info as above in 54 days (Humenyk)

CHINA Radio Beijing 7405 via Jinghua "Embroidered Ornament" card with site listed on card in 4 weeks (Ross)

COSTA RICA AWR 9725 & 11870 "Map" card, sticker and letter with station data and sked in 138 days (but that was after their reply was sent to my old address in N.B., forwarded to Prescott and then to Costa Rica), v/s David L. Gregory, General Manager (McVicar)

CUBA Radio Moscow 9600 via Habana full data card in 62 days (Carson)

CZECHO-SLOVAKIA Radio Prague 6055; 7345 & 21505 "Opocno Chateau" and "Svihov Castle" cards in 25 to 29 days (Humenyk)

ECUADOR HCJB 6130 "Ecuadorian Stamps" card, report form and brochures in 29 days v/s Glenn Volbhardt, Director of Broadcasting (Humenyk). 11775 "Ecuadorian Stamps" card, program notes in 24 days for IRC (Carson)

Radio Antena Libre 3240 prepared card, personal letter, studio picture, "Certificado de Sintonia", and station info received in 46 days for Spanish follow-up report and mint stamps. v/s Julia Medina, Secretaria (D'Angelo)

EUROPEAN RSFSR Radio Archangel 5015 no data verification on back of ham card of U1PR, Valentin G. Kalashnikov, 16 Flat 2, Suvorov Str.,Archangel, USSR 163001, in 2 months (Ross) Radio Moscow 7150 via Armavir "Lenin Mausoleum" card, sked and Christmas card in 48 days (Carson)

GEORGIAN SSR Radio Tbilisi 5040 full data station card and postcard in 13 months from Helen Apkhadre, Editor. Address is 68 Lenin Street, Tbilisi 380071(Ross)

GERMAN DEMOCRATIC REPUBLIC RBI 21540 full data "Telefunken Receiver" card in 59 days for 18 reports submitted for RBI awards (Humenyk) Wow! The postage to send those reports must not have been cheap. Hope the awards were worth it..jcf 11785 & 15125 "Loewe DX Receiver" and "Berlin Sites" cards in 32 days for 1 month (Carson)

GUAM KTWR 11805 full data card showing Bill Damrick, Pacific DX Magazine reporter in studio. Also sked in 4 months. Also Australian Radio DX Club card for ARDXC report on "Pacific DX Magazine" at 1000 UTC Saturdays in 6 weeks for 3 IRC's. Verie on back of photo "Banksia-Australian Wildflower", v/s Max Krumbeck (Sellers). "Antenna" card and personal letter from Wayne Frost (who we met when he was announcing at WHCF in Bangor, Maine) in 40 days, v/s Shelly Frost (Wayne's wife) (McVicar)

ICELAND ISBS 13855 full data "Scenery" card in 1 month (Ross)

IRELAND (PIRATE) Radio Stella International 6319.5 full data postcard in 2 weeks for $1 US, v/s Cyder (Ross). 6320 "Highland Cow and Calf" card, station history and block diagram of studio set-up in 20 days for $1 US (Csorbay)

more on the next page!

ITALY European Christian Radio 6205 computergenerated "Map of Europe" card and nice letter with station info in 5 weeks for $1 US, v/s John Adams, Dir. Said mine was first report from Canada. (Fisher)

JAPAN Radio Tanpa 3925 (Sapporo); 9595 (Chiba); 6055 full data 35th Anniversary card and info in 23 days (D'Angelo)

Radio Japan 21700 no data "Colorful Kites" card, "Hello From Tokyo" sheet, program sked and newsletter in 6 weeks (Humenyk)

KAMPUCHEA Radio The Voice of the People of Kampuchea 11938 finally verified with a letter for a follow-up report sent direct to Kampuchea in 6 months, almost 3 years after original report. Also, personal letter from Ms. Hem Bory, asking me to write her at her home address. Also received sked, pennant and Kampuchean stamps in return for mint stamps and photo. This was 3rd f/up sent, one of which was sent to Voice of Vietnam. They said that they had received none of my previous letters (Sellers)..very nice..

KENYA Voice of Kenya 4934 full data aerogramme QSL in 71 days for $1 US and postcards, v/s Warren Mweo (Csorbay)

KUWAIT Bahrain Broadcasting 15505 via Radio Kuwait computer generated form letter in 415 days for 2 IRC's, v/s Abdul Rahman Abdulla, Acting Director of Broadcasting (D'Angelo)

LIBERIA VOA 11835 full data "White House" card in 19 days (Humenyk)

MEXICO Radio Huayacocotla 2390 prepared card, nice personal letter and oversized poster in 37 days for Spanish report and $1 US, v/s Elvia Sanchez Alvarez, Coordinadora del Noticiero del Campo (D'Angelo)

MOROCCO RTM 17595 full data brown card in 261 days for IRC (MacHarg)

NETHERLANDS (PIRATE) Voice of the Netherlands 15045 QSL sheet, info sheet, stickers, postcard of Hoogeven town hall, photos of station and v/s "Garry" and wife at the microphone all in 20 days for $1 US. This was my first Europirate heard and verified. Garry said mine was first report from outside Europe (Csorbay)...excellent Mike! Did you hear this station over the Christmas period? This is the first report that I have seen of this one...jcf.

NETHERLANDS ANTILLES Trans World Radio 9535 & 11930 "25th Anniversary" card, calendar and sked in 33 days from v/s Sally Rork (Carson)

NAMIBIA SWABC 3290 full data "Mountain" card, sticker and program sked in 30 days for IRC (MacHarg)

NEW ZEALAND Radio New Zealand International 17680 pennant shaped verification for new service and "Highwave" newsletter in 3 weeks (Fisher)

NORWAY Radio Norway Int'l 21710 "Romsdalshorn Mountain" card, sked and stickers in 72 days for 2 IRC's (Carson)

POLAND Radio Polonia 7270 "Memorial Hospital Child Health Center" card, skeds, stickers, report form and letter re: finding pen pal in 69 days(Humenyk)

RIO MUNI (EQUATORIAL GUINEA) Radio Africa 7188.9 full data yellow station card via Pan American Broadcasters in 6 weeks for mint stamps (Ross)

SCOTLAND Weekend Music Radio 6310; 13630 & 15043 three cards, info sheet and DX bulletin with info on Europirates in 6 weeks for $1 US (Fisher)

SOUTH AFRICA Radio RSA 9580 full data "Cape Province Scenery" card in 1 month (Krochmaluk)

SWEDEN Radio Sweden 11705 "Stockholm at 3 AM" card in 15 days for IRC (Carson)

radio sweden international
keep in touch...

SWITZERLAND Swiss Radio Int'l 6095 (Beromunster); 6135 (Schwarzenberg); 9735 & 9885 (Sottens) "Berne-Old Town" card in 16 days (D'Angelo)

TAIWAN WYFR Relay 9280 full data card, stickers, calendar, magazine, program sked in 11 days. Unfortunately did not list xmtr site on card (MacHarg)

TONGA TBC - A3Z 5030 partial data red-crested card in 5 weeks for $1 US, v/s S. Tavake Fusimalohi, General Manager. Country #166 verified (Ross) ...excellent verie, Robert...jcf

UKRAINIAN SSR Radio Kiev 9610 two painting cards, sked, bookmarks, mint stamps, calendar and questionnaire in 63 days (Carson)

USA PIRATE Hope Radio International 7413.8 typed info sheet in 40 days for report to Slanesville, WV, v/s Jamie, Chief Operating Engineer (Zeller). same in 5 weeks for mint stamps (Ross)

Radio USA 7375.6 yellow card #178 and sticker in 6 weeks for mint stamps via Wellsville, NY. v/s Mr. Blue Sky (Ross)

Samurai Radio 7375 blue/white card in 1 month for mint stamps, via Slanesville, WV. v/s Eddie Currents (Ross)

WTNU - Voice of the Graveyard 7400 & 7416 two computer generated QSL sheets in 2 months for mint stamps and report to Baltimore, MD (Ross)

Secret Society Radio 7410 large sized, homemade QSL in 1 month for mint stamps and report to Baltimore, MD. maildrop , v/s Pirate Jim (Ross)

Voice of Laryngitis 7415 photo card and letter from Stan Huxley in 1.5 months for mint stamps. Using 40 watts (Ross)

KNBS 15063 via ECPR "Cannabis 19" card and pennant in 2 weeks for mint stamps from Phil Muzik, via Wellsville, NY (Ross)

UNITED STATES VOA 5995 and others full data cards in 18 days with English sked, Voice magazine and report forms (Humenyk)

Radio Libertas 11790 via WHRI full data card and personal letter in 2 months for mint stamps from Vivian Gamulin, Asst. Producer via 1174 Clarkson Rd. N., Mississauga, Ont L5J 2W2 address (Ross)

WWCR 7520 & 15690 prepared card and no data "Globe" card in 1 month for mint stamps, v/s George McClintock, C.E., K4BTY (Ross)

WMLK 9465 letter describing station with full data in corner at bottom received in 137 days, v/s Elder Jacob O. Meyer (McVicar)

KUSW 15650 full data card and catalogue in 39 days (McVicar)

Voice of the OAS (Organization of American States) 11830 via VOA, Greenville, in 16 months!. Date and frequency plain white card with several brochures. (Sellers)

USSR Radio Peace and Progress 11980 two "Logo" cards, bookmarks and wallet calendar in 65 days for IRC (Carson)

VENEZUELA Radio Nacional no data card, program sked, letter, tourist guide and sticker in 872 days for $1 (MacHarg)

Radio Los Andes 6010 prepared card, stickers and postcards of Merida in 46 days for mint stamps (D'Angelo)

YUGOSLAVIA Radio Ljubljana 11735 large size station card and postcard in 15 months (Ross)

++++++++++++

CLANDESTINE Radio Farabundo Marti 6833 prepared card and brochure describing station in 22 days for $1 US, v/s Jaime Suriano, US Representative. Report to El Salvador Radio Aid Project, P.O. Box 1614, Old Chelsea Station, New York, NY 10011 (D'Angelo)

++++++++++++

CONTRIBUTORS

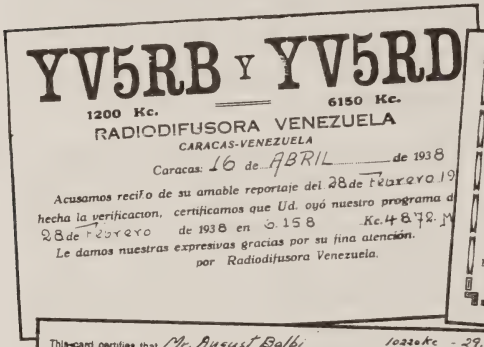
John Carson, Norman, OK; Ken MacHarg, Jeffersonville, IN; Mike Csorbay, Canfield, ON; Richard McVicar, San Jose, Costa Rica; Richard D'Angelo, Wyomissing, PA; Harold Riddell, Rochester, NY; John Fisher, Amherstview,ON; Robert Ross, London, ON; Mark Humenyk, Weston, ON; Harold Sellers, ON; Peter Krochmaluk, North York, ON; George Zeller, Cleveland, OH.

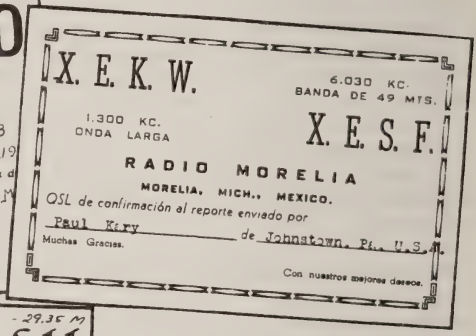
Had to hold back the QSL news this month. Look for it next month. ❑

the CPRV page

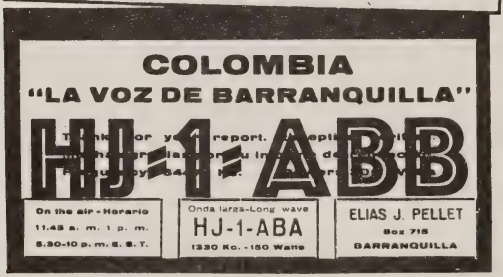
COMMITTEE TO PRESERVE RADIO VERIFICATIONS

JERRY BERG, *Chairperson* • 38 Eastern Ave. • Lexington, MA 02173 • (617) 861-8481


YV5RB Y YV5RD
1200 Kc.
6150 Kc.
RADIODIFUSORA VENEZUELA
CARACAS-VENEZUELA
Caracas 16 de ABRIL de 1938
Acusamos recibo de su amable reportaje del 28 de Febrero 19
hecha la verificacion, certificamos que Ud. oyó nuestro programa d
28 de Febrero de 1938 en 5.158 Kc. 4872. M
Le damos nuestras expresivas gracias por su fina atención.
por Radiodifusora Venezuela.



This card certifies that Mr. August Balbi
heard our short wave station on December 11th 193X
1022 Kc - 29.35 M
Este cartão certifica que
ouviu nossa estação de ondas curtas em
PSH
Rio de Janeiro



Some more Latins this month. +++ Venezuelan YV5RD reportedly used four gongs before announcements, which were multi-lingual. +++ Unlike today, there weren't many Brazilians on shortwave back in the old days, but one that was widely heard was PSH in Marapicu. It was known as Radio Internacional do Brazil, it broadcast from 1800-1900 EST, and it gave its call letters phonetically as "Peter, Samuel, Harris." +++ Colombian "La Voz de Barranquilla" operated in the mornings and evenings on various channels. This veri says 6450, but it was also reported on 4770, 4807, 6115, 9555 and other nearby frequencies. +++ XESF was one of loads of Mexican stations on shortwave in the 30's and 40's. Morelia MW channel XEKW is still on the air, according to the WRTH.

I want to take this opportunity to thank all those who have inquired about CPRV and helped us in various ways. This includes hobbyists, DX programs that have helped spread the word about us, publications like Monitoring Times and the World Radio TV Handbook, the clubs that carry The CPRV Page, and, of course, those who have donated QSL's belonging to themselves, family and friends. We started out three years ago not knowing whether there would be any interest in preserving these important bits of hobby history. That was 22,000 QSL's ago, and we now have an invaluable archive of veries of all kinds--especially SW and MW--including many from the "golden age" of DXing, the 30's and 40's, and even the 20's. It is great to know that this important aspect of the history of the shortwave bands, as seen by DXers, will live on into the future. +++ Interested in an easy way to donate your QSL's to CPRV when the time comes? Send a business size SASE to CPRV Registered Collections Coordinator John C. Herkimer, P.O. Box 54, Caledonia, NY 14423, for full details. +++ Till next time --

A Committee of the Association of North American Radio Clubs

David M. Clark
R.R. # 3
Newmarket, Ontario
L3Y 4W1 CompuServe 71311,2677

WORLD RADIO REPORT

World Radio Report is a column intended to supplement the International and Tropical Bands Loggings columns, bringing you news of operating changes and station developments on the SWBC bands. Schedule and frequency changes affecting English broadcasts of major stations readily heard in North America are normally excluded - refer to World English Survey and the USA English and BBC World Service surveys to be found in the centre pages of the magazine. Propagation news and features are sometimes presented too. Contributions are welcome from all members.

PROPAGATION NEWS

In the September/89 issue of DXO, I referenced the bulletin board service available from the Space Environment Services Centre in Boulder, Colorado. The BBS is a valuable source of current solar and propagation data. A running thirty days of sunspot counts, solar flux and the geo magnetic 'A' and 'K' values are also provided.

The original service continues in operation - 24 hours per day, 7 days a week. But an upgraded service, operating at a higher baud rate and capable of servicing up to four users concurrently, is now being offered on an experimental basis. If you have a high-speed modem, I suggest giving the new service a try. In just a few minutes you can screen print or download a vast quantity of data. Used in conjunction with Fine Tuning's "27 Day Predictor", this can be a great way to gear your DXing to the solar rotation and perhaps co-relate certain reception experiences to that so-called 27 day cycle and to recognize/anticipate recurrent disturbance patterns. Here's the solar/geomagnetic data for February/90 which I obtained from the board:

DATE SUNSPOT SOLAR BOULDER 'A' BOULDER 'K' INDEX
(NUMBER FLUX INDEX 00—03—06—09—12—15—18—21)

28-2-90 270 229 26
3 5 5 3 4 4 3 3
27 288 228 18
3 3 4 4 4 3 3 2
26 282 218 18
3 3 2 4 4 3 3 4
25 297 224 23
4 5 3 4 4 3 3 3
24 384 232 23
5 4 4 3 3 3 4 3
23 278 219 29
4 2 4 4 5 5 4 4
22 248 217 na
3 3 3 2 3 4 4 4
21 208 213 13
3 3 2 3 3 3 3 2
20 232 191 23
3 3 3 4 5 4 4 3
19 175 181 30
5 4 3 4 5 4 4 4
18 124 164 18
3 3 3 3 4 3 4 3
17 62 154 21
4 4 2 4 4 4 3 3
16 94 152 34
5 6 6 2 3 3 3 3
15 125 152 20
2 2 3 4 4 3 3 5
14 121 153 15
3 5 4 3 1 2 1 2
13 136 146 7
0 1 1 2 1 3 3 3
12 107 145 5
3 2 2 2 1 2 0 0
11 105 138 8
1 3 2 3 2 2 2 2
10 103 151 6
1 1 2 2 2 3 2 0
09 158 145 6
0 1 3 2 2 3 0 1
08 140 146 9
3 3 3 1 2 2 2 1
07 118 148 25
1 2 5 5 4 4 4 3
06 100 151 9
4 3 3 1 1 2 1 1
05 134 155 21
4 3 5 4 3 3 3 2
04 188 160 23

```
3  3  3  2  3  5  5  4
03      195    163     5
2  0  0  2  2  3  2  1
02       239     181     26
3  4  4  4  4  5  4  3
01-2-90   262     206     22
1  3  2  3  4  5  5  3
```

Notice that the sunspot number gradually declined through the first half of the month, reaching unusally low levels on the 16th and 17th, even though the solar flux remained relatively stable. While there were a number of quiet days until mid-month, thereafter the geomagnetic field was at active to minor storm levels as the sunspot count (and the solar flux) accelerated sharply, even though there were no major flares.

Looking back to my own logs, I found that February 3rd was far and away the best day for dusk reception (2215-2300) on the Tropical Bands of Indonesian stations from Sumatera. As I mentioned in the column last month, that was the date of my log of previously unheard RRI-Tanjung Pinang on 3224.9. What I found interesting is that the quiet geomagnetic field on that occasion (with enhanced Indonesian reception across the polar cap) had been preceded by two days of moderately active conditions AND was immediately followed by another two moderately active days.

February 7th was again moderately active, but the following morning, as the state of the field dipped towards an extended period of mostly quiet conditions, RRI-Ambon was heard at an outstanding level, totally overpowering the persistent co-channel utility signal on 4845.3. Then, only after several consecutive days of quiet conditions, we find that on February 11th, Thailand (4830) and Sri Lanka (4901.9) came through with a rare (for Ontario) showing of audio between 1230 and 1300 [see also Tom's column this issue].

Finally, through the last half of the month, conditions were spotty at best (at least on the Tropical Bands where my listening is concentrated). I leave the reader to draw his own conclusions concerning these observations, but whether you're a Tropical Bands DXer or you like to listen to certain stations on the International Bands, why not check the SESC data against your own logs in February to see if you can co- relate unusally good or bad reception in your own experience?

If you have a modem and communications software for your home computer, here are the parameters you'll need to know in order to access the SESC's bulletin board yourself:

Regular Service:
Phone number 303-497-5000
300/1200 baud, 8 bits per character, No parity 1 stop bit
,
Upgraded Service:
Phone number 303-497-5042
300/1200/2400 baud (other parameters as above)

I am pleased to conclude the propagation section of this month's column with some comments and observations from **Hans Johnson**, one of our associate members living in Savannah, Georgia. Hans in a specialist in Middle East affairs and authored a very fine article for Fine Tuning's Proceedings 1989 entitled 'DXing The Arab World'. With respect to evening listening on the Tropical Bands, he writes:

"After reading your article in Proceedings 1989 [DXing Asians on the Tropical Bands - The Auroral Factor] and listening to John Bryant's enthusiasm on the phone, I decided to pay more attention to propagation. Frankly, even after several months of intensive listening and record-keeping, I still do not have any firm conclusions. But I do have a few observations to share.

"One, while there is something to the 27-30 day cycle, I would not preclude listening on any given night on the basis of information heard on a propagation report. I have heard many a station on a night when I thought it would not be possible (propagationally) this season.

"Secondly, I get a peak signal from stations in the Andes at about half an hour past my local sunset. This conditions lasts about twenty minutes to haf an hour. At this time, I rapidly tune between stations on my Andes hit list, as stations come and go rather quickly.

"Finally, the openings I have had seem rather localized. Rather than all the rare OA's [Peruvians] appearing on the same night or even several of them, it's usually just one

or two. What is really crazy is how some of the more difficult OA's will come in quite often while others I have yet to hear.

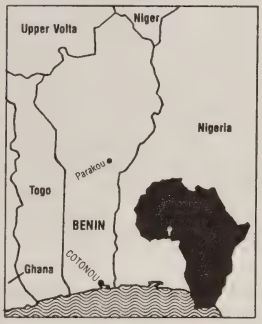
"Reading the various bulletins, Radio Inca [4238v] seems to be reported quite often...I have yet to hear it after months of trying in the local evening. Yet stations I would consider to be a harder catch, such as Radio Nuevo Cajamarca 5799.9, I hear quite often. What gives? I don't know and that is what makes this hobby so much fun."

Thanks very much for your comments, Hans. An important function of the bulletin is to promote learning about our hobby by sharing experiences with others. As noted in the column masthead, I would be pleased to provide space for input from any of our members.

BROADCASTING NEWS

* (All Dates/Times are UTC Unless Otherwise Stated) *

BENIN: The regional transmitter at **Parakou** is presently active on 5025 where it can be heard in French between 0600 and 0630, and frequently in local vernaculars thereafter. One night in January I heard them mixing with another station which I believe was Radio Tonga. Now, however, Benin is alone on the channel. Tonga has since been reported on their "usual" 5030, Of late, the latter's carrier has been very weak here with only marginal audio at times. (dmc)



CONGO: Until 1960, French Equatorial Africa had a strong shortwave voice from Brazzaville which was familiar to many shortwave listeners. Following formation of the independent Peoples Republic of the Congo, shortwave services became more erratic and eventually disappeared. In addition to **Radio Brazzaville** itself, DXers will recall that they was also a small (4 kW) regional transmitter at Point Noire which operated variously between 4839 and 4843 kHz, if memory serves. But, there are no shortwave outlets whatsoever listed in the 1990 WRTH.

◆ Very recently, there has been a reappearance of **RTV Congolaise** on shortwave using one of the old channels: 6115 listed (previously) as 25 kW. Richard Ginbey reports from South Africa that they have been heard around 0600 and again after 1400, albeit on an irregular basis, at least so far. (RNMN via Harold Riddell / dmc)

COSTA RICA: **Radio for Peace International** currently broadcasts in English as follows:

Weekdays:
* 2000-2330 on 21565 and 25945
* 0030-0400 on 7375 (USB), 13660 and 21565
* 0415-0715 on 7375 (USB)

Sat/Sun: * 1800-2330 on 21565 and 25945

◆ A less frequently reported Costa Rican is **TIQ - Radio Casino**, Limon, which was recently heard in Europe around 0645 on 5954 kHz with a folk music program. Normal listed s/off per WRTH is 0600. (SCDX)

◆ Meanwhile, with the dramatic changes in the political environment in Panama and more recently, Nicaragua, one might speculate what the future holds for **Radio Impacto** - heard consistently on 5044 of late. There is a widespread belief that the station has been financed by the CIA or some other agency of the U.S. government. Since its raison d'etre seems to have about run its course, will the funding stop and Impacto cease operations? Perhaps this will eventuate if the political transition in Nicaragua is successful. (dmc)

ECUADOR: **HCJB** reported that on February 14th, their Pifo transmitter building was entered by armed men. The two operators on duty were tied up while about fifty printed circuit boards were removed from the equipment. A mission vehicle was also stolen.

The stolen circuit boards were used in the control of antenna switching, the 500 kW

transmitter and audio processing.

The thieves left a note demanding $250,000 and threatening additional damage, as well as harm to HCJB staff, if any of the thieves were arrested.

Within hours HCJB staff had all of the transmitters back in operation, with the exception of the 500 kW unit, which is still out of service as this is written on March 9th. The circuit cards are being rebuilt.

The motive for the incident seems to be money. HCJB says that excellent cooperation has been received from the Ecuadorian government and the U.S. embassy in Quito. (via Harold Sellers)

Kalaallit Nunaata Radioa
Grønlands Radio Radio Greenland

GREENLAND: In a letter dated February 21st, Henrik Jorgensen, an engineer at **Kalaallit Nunaata Radioa** (Grønlands Radio), confirms that the station left shortwave (3999 kHz) on January 1, 1990, and that they do not plan to return. (Harold Sellers)

GUAM: **KTWR** - Trans World Radio, has begun an additional transmission in "African English" (that's what they announce!) at 1600-1700 on 11910. This would seem to supplement the broadcast to Africa in English at the same time on 15210 from TWR's facilities in Swaziland. (RNMN via Riddell)

HONG KONG: I'm afraid I don't have any definitive dates but this is my last chance to remind you to be on the lookout for **Radio TV Hong Kong** on 3940 kHz anytime after receipt of this issue in late March. Hopefully they will be on the air with weather summaries and forecasts for the participants in the bi-annual South China Sea Yacht race.

In 1988, they were on the air April 2-7 or thereabouts from 1125 with trumpet fanfare and ID's until the actual broadcast period (preceded by time pips) between 1130 and 1145. While I don't have all the applicable dates, I did look back to 1986 and find they were on at 1055-1115 during the last week of March; in 1984 they were on between April 16 and 20, also at 1055-1115; and in 1982, they were on April 3-8 (for the outbound leg) & April 14-19 (for the return leg of the race), again at 1055-1115.

You'll just have to be guided by the above and be persistent. If/when someone does hear them, I suggest calling the info in to the DX-Change so others may be alerted too. Two years ago, I was camped on the channel for a couple of days without hearing a thing; then, they were heard with surprisingly good signals on April 4th at the height of a geomagnetic storm. I remember it well...that morning the 'K' index at 1200 was = 6!! Good luck. (dmc)

ISRAEL: Based on an agreement signed with Isreal in 1987, the United States government is planning to build a massive relay site in the Arvada Valley region of the Negev Desert, near the Jordanian border. Local residents and environmentalists are fighting the project due to concerns over the safety of human life and crops, as well as the fact the site is right in the middle of a major bird migration route, potentially afffecting a number of endangered species.

Plans include provision for some fourteen 500 kW transmitters and 37 antenna towers to beam **VOA** and **Radio Libery/ Radio Free Europe** programs to Central & Southern Asia and East Africa. A further 10 towers had originally been planned for broadcasts to Eastern Europe until the Soviet Union ceased jamming activities. Final go-ahead remains subject to the completion of planning and environmental impact studies, but the Israeli government seems com-

mitted to the project which is expected to cost nearly $300 million U.S. (Toronto Globe & Mail, via Sellers)

ITALY: In addition to the regular Sunday morning service opening at 0800 on 9860, in February the **Italian Radio Relay Service** began running additional transmissions (also Sundays only) at 1245-1400 on 21500, testing a new antenna with beams towards Eastern Europe and then to Africa. After an initial 15 minutes in Russian, there are half-hour programs in English and French. (Arthur Cushen's DX World / RNMN)

♦ **Adventist World Radio Europe** has decided to close down their shortwave operation at Forli and will be setting up new studios in San Marino. The question is, where will they install two planned new transmitters, one of 250 kW and the other 100 kW? Presently, AWR Europe programs are also carried by a 250 kW transmitter of Radio Trans Europe at Sines, Portugal. (RNMN / dmc)

NAMIBIA: The South West African Broadcasting Corporation (usually best-heard in the evenings on 3270/3290 kHz) was expected to change its name to **The Namibian Broadcasting Corporation** as of March 2nd. An expansion of shortwave services could be in the offing. (RNMN)

NEW ZEALAND: At the time of writing, **Radio New Zealand International** was operating on a reduced schedule of 2300-0700, using the new 100 kW transmitter on 17680. However, when the country reverted to standard time on March 18th, the J90 schedule was expected to come into effect. (RNMN)

NORWAY / DENMARK: From March 4 to May 5/90, **Radio Norway International** announced it will broadcast to North America (English on Sundays only) at 0800-0830 on 15165, 1200-1230 on 15165, 1600-1630 on 21705 & 17765,1700-1730 on 17765, and 2300-2330 on 11930. This means that relays of Radio Denmark (in Danish only except for ID in English) should follow immediately at the half-hour for a 25 minute program period in each case. (RNI direct, via CompuServe)

PHILIPPINES: There have been major changes at **Radio Veritas Asia**. The two 100 kW transmitters have been taken out of service in favour of the newer 250 kW unit and rather surprisingly, English broadcasts which had been carried daily at 0130 and 1500 have been dropped altogether.

Part of a revamped schedule for broadcasts to South East and South Asia in a variety of Asian languages is as follows:

* 0000-0130 on 15305
* 1300-1430 on 9520
* 0100-0230 on 15330
* 1300-1500 on 9555

It should still be possible to ID the station by listening for the familiar IS consisting of a trumpet fanfare and station identifications in English between each of the half-hour program segments. (SCDX / dmc)

SOUTH KOREA: On March 3rd, **Radio Korea** was heard to announce their new schedule (commencing April 2) for broadcasts to North America in English: 1030-1100 on 11715 (via new RCI relay); 1230-1330 on 9750; and, 0000-0100 on 15575. The latter two transmissions are direct. (Andy Reid)

SPAIN (Pirate): If you look up 5068 kHz in the 1990 Passport To World Band Radio, you will find a listing for a station called **La Voz de Las Canas**, which was believed to have been broadcasting (since November/88) from Cali, Colombia. As it turns out, this was actually a 100 watt pirate operation, transmitting from a private house near Madrid, Spain.

The operators went to great lengths to structure the program format such that the listener would assume this was indeed a Latin American station, such as one would expect to find on the Tropical Bands. Depending on one's intrepretation, this was either a "sociological experiment" (as claimed) or a purposeful attempt to dupe DXers, since signal levels in Europe were found to be much stronger in Europe than in North America.

Although it is uncertain whether the Spanish authorities were about to close in on the pirate operation, the transmissions ended on January 21st at 0100, supposedly because the perpetrators were satisfied that the "experiment" had run its course. However, after extensive publicity on Radio Netherland's 'Media Network', the station

operators announced a further "final" transmission commencing at 2330 on March 2nd. This last hurrah would seem to have been nothing more than a publicity stunt. (RNMN / dmc)

SWITZERLAND: Between March and August of this year, the **Red Cross Broadcasting Service** can be heard in English to North America at 0310-0327 on prescribed Tuesdays and Fridays on 6135, 9725, 9885 and 12035 (via Swiss Radio International). Here are the specific dates:

* Tuesday (UTC): March 27, May 1 & 29, June 26, July 31 and Aug. 28.

* Friday (UTC): March 30, May 4, June 1 & 29, August 3 and 31.

(International Committee of The Red Cross, via Sellers)

SUDAN: **Radio Juba** which operates a medium wave transmitter on 693 kHz is being heard at 1400-1500 via Radio Omdurman's outlet on 9540. There is even some English at the beginning of the broadcast and the use of 31 meters is announced, suggesting this could reflect the establishment of a regular relay. However, it is also conceivable that this is a temporary arrangement - the medium wave transmitter could be off the air, possibly due to rebel activities, given that Juba is located in the southern part of the country [see map] which is largely under the effective control of the Sudanese Peoples Liberation Army. Note also that the SPLA has a transmission on nearby 9550 at 1300-1400. The government and the opposition forces could be jockeying for position with listeners on shortwave.

Radio Omdurman's domestic outlet continues to be heard on 11635, //9540 for most of the broadcast day which is 0300-2100. (RNMN via Riddell / SCDX)

RESTLESS REPUBLICS

TADZHIKISTAN

Much of this mountainous republic in the heart of Central Asia is above 3,000 metres. It borders China, Afghanistan, Uzbekistan and Kirgizia. The Pamir mountain range in the southeast holds some of the highest peaks in the Soviet Union.

The world's attention was drawn to this republic in 1989 when an earthquake killed more than 1,000 people. As nationalist unrest spreads throughout the Soviet Union, there are fears among Russians here that their rights are endangered by growing nationalist feeling. There have also been border hostilities as Tadzhiks and Kirgizians fought over land and water rights.

The republic's resources include coal, oil, uranium and asbestos. Cotton is an important crop and wool, textiles and silk are produced.

The Turks conquered this area centuries ago, then the Afghans. The Russians arrived in the 1860s. In the late 1920s, there was great opposition here to Soviet policies of forced collectivization of agriculture. In the following years, there were repeated purges of party and republic officials.

Although the Tadzhiks speak an Iranian dialect, they are mainly Sunni Muslim.

Ethnic makeup: The majority are Tadzhiks, about one-quarter Uzbeks, most of them are also Sunni Muslim, and a smaller majority Russian and Ukrainian.

Population: About 5 million.

Capital: Dushanbe (called Stalinabad until 1961).

BERNARD BENNELL/The Globe and Mail

TADZHIKISTAN: This is yet-another Soviet Republic undergoing nationalistic unrest.

Dushanbe's Home Service (I pgme) is relayed by a Moscow transmitter at 0015-1805 on 9785, while domestically, it can be heard on 4635. Home Service II pgme and some external services have eminated from a transmitter on 4975 (which is sometimes audible in North America, especially around sunrise in the winter). BBC Monitoring recently found it had moved to 7245 kHz, although this could be temporary. Listen for their IS played on a bugle or trumpet, followed by an ID simply as "Injo Dushanbe" which is not too hard to make out, even in the local Tadjik language. (RNMN / dmc)

TANZANIA: There are a number of shortwave frequencies for the various services of **Radio Tanzania** listed in the WRTH. While some of these may represent future plans, presently only 5050, 9684 and at times, 4785, are active. The best bet for Ontario listeners may be 5050 kHz from 0200 s/on up 'til 0400, if the channel is clear of LAm QRM (spring is often an optimum time of year for openings to eastern Africa on the

Tropical Bands, subject to QRN). 9684 has tended to be a difficult catch because it was frequently jammed (by South Africa?) although I'm not sure if this is still the case. (RNMN / dmc)

WEST GERMANY: The head of the radio transcription service at **Deutsche Welle** was interviewed on the February 15th edition of 'Media Network'. He was speculating that significant changes in the radio broadcasting setup in West, and possibly East Germany, could well begin to materialize within a few months following the East German elections which were held on March 18th, the results of which will likely spur on the apparent move towards German re-unification.

This official noted that **Deutschlandfunk**, which operates a number of LW/MW and FM domestic transmitters, is licensed to broadcast not only to all of Germany (West and East), but also a 'Foreign Service' for Europe. Although Deutsche Welle is meant to operate as an international radio voice on shortwave, it also broadcasts to Europe. He thus anticipated that the services could merge (presumably in the name of Deutsche Welle) and that East Germany's **Radio Berlin International** might someday be associated too. There is also the question of what the future holds for the East German domestic service, Voice of the GDR, whose name 'Stimme Der DDR' recently reverted to **'Deutschlandsender'**. They operate a 50 kW transmitter at Berlin on 6115 at 2300-0530.

Should re-unification come about, the other "international" broadcaster likely to be affected would be **RIAS**, West Berlin - Radio In the American Sector, since its purpose in life is primarily to broadcast to East Germany. Re-unification would thus make the service redundant and the station could be shut down. Although operated by the United States Information Agency, substantial funding is provided by West Germany.

RIAS has a 100 kW shortwave outlet operating 24 hours daily on 6005. If you haven't logged them, now would be a good time to try. Co-channel QRM is a problem but I suggest checking around 0700. (RNMN / dmc)

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Congratulations to Harold Sellers who reports receiving a verie from **PFBS (The Pirate Freaks Broadcasting Service)** for his reception of their Christmas morning broadcast, using 10 watts (!) on 15050. They indicate plans to be on the air again during the Easter period (April 13-16) on the same frequency between 0600-0900 and 1700-2200 (possibly with a power increase to 100 watts). Although the mailing address is a postbox in Utrecht, Holland, they claim to be broadcasting from Germany.

Acknowledgements: Thanks to the following individuals who contributed directly or provided material which was utilized in the preparation of the column this month — Hans Johnson, Andy Reid, Harold Riddell, and Harold Sellers. Thanks also to John Spencer Carson, Jr. who submitted several schedules which I didn't actually use in the column as they now seem to be out of date. As credited, information was also derived from Arthur Cushen's DX World. ●

Call for Bids to Host the 1990 ODXA Convention

If you or your local group of ODXA members would like to host a one-day convention for ODXA members, you are invited to submit your bid to the club Board of Directors. Send us details of location, timing and activities. In the past ODXA Conventions have been in Toronto, but this need not continue. We wish to give all members the opportunity to host the membership at a convention. If you have any questions, call Harold Sellers at club HQ, (416)853-3169.

1975 - 1990 Fifteen Years of Serving Ontario DXers

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TROPICAL LOGGINGS

This column is designated for the ongoing survey of broadcasting stations between 2000 and 5900 kHz, wherein are found the Tropical Broadcast Bands. The following are reports of stations heard recently by our members. All members are welcome to send in their loggings.

Welcome once more to the column. This month we have some of old stalwart reporters contributing ... just as well, since your editor has been occupied with daily tasks, limiting DXing time. So we welcome Mike Csorbay, John Fisher, Mark Coady, Cedric Marshall and Dave Clark. Thanks guys!

A late offering, since I am typing early these days, comes from Rob Ross, well known to all of you. He has heard Radio Rebelde, Cuba on 3384 kHz at 0312 UTC, parallel to 5025 (this has also been heard by your editor at 1200). Rob also heard the Radio Afghanistan relay on 4740 at 0120, and the Argentinian Radio Rivadavia on 4588 upper sideband with sports talk at 0043. This one is regarded as a utility station by some, but seems to act as a relay for LS5 on 630 kHz, mainly for sports events.

And so, without further chatter, let's see what has been heard lately.

• •

1629 AUSTRALIA 3RPH/2RPH Radio for the Print Handicapped; almost certainly one of these stations here at 1150-1158 on Mar 3, woman in Australian-accented English in dialogue or interview with man (same format as during 1988 Xmas week reception); another co-channel signal was heard very briefly at the same time with music; poor Mar 3 (DMC) ... On Mar 6 signal faded up at 1130, unintelligible man on the half hour, then woman with mention of Australia and introduction to a story, followed by man who started to read it; signal weakened after 3-4 minutes and was gone after 10 minutes; poor, the only question now is which of the 2 stations did I hear? (CJM) ... One of the big catches of the season in the DX barn! (Ed)

2420 BRAZIL Radio Sao Carlos; this presumed the one at 2357 with pops and Portuguese announcements; fair Jan 21, another station audible on 2490 at the same time (JF)

3205 PAPUA NEW GUINEA Radio West Sepik; in Pidgin at 1205+ with possible local news, several mentions of Vanimo (their town) and ID's as "Radio Sandaun" at 1206 & 1209; good Mar 3, PNG's spotty this morning, some decent and others inaudible (DMC)

3215 SOUTH AFRICA SABC Radio Oranje; 0302 in Afrikaans with ID and EZL music, reception report from Canada read at 0306; fair Feb 5 (MAC)

3225 INDONESIA (SUMATERA) RRI Tanjung Pinang; presumed at 2258 with probable ID by lady, into Song of the Coconut Islands and Jakarta news, faded around 2304; poor Feb 17 (3rd consecutive day with A index over 20), seems regular as carrier noted on other dates (DMC)

3280 ECUADOR La Voz del Napo; 1025 Spanish announcements and messages to listeners, time pip & ID, announcer seemed half-asleep! poor Feb 10 (MCS)

3290 NAMIBIA Radio Suidwest Afrika; in Afrikaans at 0126 with Anne Murray music, chatter, another song; poor Feb 3 (MAC)

3325 GUATEMALA Radio Maya; 1052 accordeon music, male announcer, full ID on the hour with frequencies and call letters, then into guitar music; fair Feb 10 (MCS)

3345 INDONESIA (MALUKU) RRI Ternate; found unusually early at 1124 with traditional music, 1129-1155 religious program with Koran and talk afterward, then light music to 1200 Jakarta relay; back at 1211 with local program of pop music and personal-care ads as noted last month, to 1245 fade; fair Feb 8 (CJM)

3360 GUATEMALA La Voz de Nahuala; 1106 accordeon music, talk in dialect and mention of slogan, to 1114; fair Feb 10 (MCS)

3366 GHANA Ghana Broadcasting Corp; 0556 choral music //4915, music interlude, drum Interval Signal, time pips and lady with "GBC news"; poor Feb 4 (MAC) ... and at 2302 with lady in English, religious message, hymn, ID, anthem and off, close was NOT // 4915; good Feb 6 (MCS)

3970 CAMEROON Radio Cameroun, Buea; 2218 in French, network talk //4000 & 4850, then local program with Easy Listening music; good Feb 8 (MCS)

4000 CAMEROON Radio Cameroun, Bafoussam; 0503 English network news //4850, then into local music at 0514; good but ham QRM, Feb 5 (MCS)

4238 PERU Radio Inca; 0303 man in Spanish, echo announcements, ID, music, to close at 0305; poor with CW QRM, Feb 14 (MCS)

4680 ECUADOR Radio Nacional Espejo; 0228-37 with drama, ID ("R.N.E.") and metre band announcement, then pop music; fair Feb 2 (MCS)

4755 HONDURAS Sani Radio; 2243 ID, talk in Spanish, time checks and more talk; good Feb 8 (MCS)

4760 LIBERIA ELWA; 2217 English religious program, announcement at 2228 "This is ELWA broadcasting from Monrovia, Liberia. We have come to the close of our broadcast day; good night"; anthem and off 2230; good Feb 6 (MAC)

4760 unID; weak subcontinent vocals, best around 1220, but lost before 1230 as China became dominant; Feb 11 ... also at 1210 with vocals over China, but through horrendous utility carrier; Mar 3, season definitely favours AIR Port Blair instead of co-channel AIR Leh (DMC)

4780 NORTH KOREA Radio Pyongyang; this presumed the one at 1245 with Asian music, talk by man to close at 1250; poor Feb 6 (MAC) ... Pakistan uses this frequency, heard regularly. Maybe you meant 4770 kHz? (Ed)

4790 PERU Radio Atlantida; 0251 in Spanish with echo chamber talk, ID, slogans and promos with bits of Latin music between items, at 0254 mention of Banco Federal; fair Feb 5 (MAC)

4800 LESOTHO Radio Lesotho; 0344 talk by man, Afro music between items, choral music at 0357, then ID at 0359 and news in English, another ID at 0430; good Feb 5 (MAC)

4815 BURKINA FASO Rdif. TV Burkina; 2359 Afro music, 0000 ID by man "Ici Radio Nationale de Burkina", anthem and off; good Feb 17 (MAC)

4821 PERU Radio Atahualpa; 0930 guitar and accordeon music, 0933 ID "en Atahualpa la radio uno .."; good Feb 10 (MCS)

4830 VENEZUELA Radio Tachira; 0355 man in Spanish, "Buenos noches - hasta manana" and choral anthem, then march, and close; good Feb 4 (MAC)

4830 BOTSWANA Radio Botswana; at 0352 with SetSwana announcements, barnyard Interval Signal, choral anthem, ID's, religious program in English, back to local language at 0404; fair Feb 4 (MAC)

4830 THAILAND Radio Thailand; External Service now on this channel, heard with unmistakable chime Interval Signal at 1235, brief announcement by lady, then talk by man in presumed

Khmer until 1250 fade; very weak Feb 11 (DMC)

4845.2 INDONESIA (MALUKU) RRI Ambon; best-ever level with pops from 1240, man with local ID at 1257 and mention of upcoming Jakarta program 1259 another ID into Song of the Coconut Islands and Jakarta relay; good Feb 8 (DMC) ... same morning, ID at 1257 was "Inilah Radio Republik Indonesia, Ambon", and the announcer gave the wavelength. Jakarta program was "Berita Ekonomi dan Industri" to 1313, then another ID and wavelength announcement followed by local news including interview with owner of a handicrafts store. Music from 1335 to 1400, then short talk by man to 1404 and sign-off by man with Love Ambon to 1407*; good Feb 8, late opening (CJM)

4850 CAMEROON Radio Cameroun, Yaounde; 0508 in English with local news including events in Douala, read by man, "That ends the news" at 0513, then into French with Afro pops; fair Feb 16 (MAC) ... 0458 man and woman in English, ID, time check as "6 o'clock" at 0500 then news in English; good Feb 5 (MCS)

4870 BENIN La Voix de la Revolution; 2256 song, closing announcements at 2259 in French, song and anthem to close at 2301; good Feb 16 (MAC)

4875 INDONESIA (IRIAN JAYA) RRI Sorong; this presumed the one with Indo-style music, 1258 unintelligible talk, time pips on hour and off; poor Feb 5 (MAC)

4875 USSR Georgian SSR Radio Tbilisi; presumed at 1300 causing het on above RRI station, man with talk in presumed Georgian, native folk music, faded after 1306; poor Feb 5 (MAC) ... Sorong and China are normally the only stations heard here at this time. (Ed)

4875 CHINA Zhejiang PBS, Voice of Jinling; presumed at 1220 with music and talk in Chinese; good Feb 11 (MAC)

4880 SOUTH AFRICA SABC, Radio Five; 2308 in English with pop music, male announcer "That was Robert Cray on guitar here on Radio Five this Wednesday morning"; good Feb 6 (MAC)

4890 PAPUA NEW GUINEA NBC Port Moresby; at 1258 with NBC ID, time check and "This is Radio Port Moresby" just before time pips at 1300, then into news; poor Feb 12 (MAC)

4901.9 SRI LANKA Sri Lanka Broadcasting Corp; 1253 talk by lady, then subcontinent song until 5 time pips at 1300, unreadable announcement into another song as signal faded; poor Feb 11 (DMC)

4904 CHAD Radio Nationale Tchadienne; 2157 in French, man with closing ID, choral anthem, march and off by 2202; fair Feb 4 (MAC)

4910 ZAMBIA Radio Zambia; 0409 news items in local dialect, ID "One Zambia" at 0410, more local chatter by man; fair Feb 5 (MCS)

4910 HONDURAS La Voz de la Mosquitia; 0218 Spanish religious program with hymns, ID as "HRXK la Voz Evangelica de la Mosquitia", more hymns, American country & western music; fair Feb 2 (MCS)

4930 HAITI 4VEH; 2258 easy listening music, Spanish ID, "Auld Lang Syne" bell Interval Signal, then "Good evening friends, this is Radio Station 4VEH broadcasting on an assigned frequency of 1030 kHz"; good Feb 2 (MAC)

4940 IVORY COAST Rdif. TV Ivoirienne; 2140 Easy Listening music, man in French with chatter, read letter from USA, into Afro pops; fair Jan 31 (MAC)

4955 BRAZIL Radio Marajoara; at 0327 with sertenaje music, man in Portuguese with echo ID, talk and off at 0331; good Feb 5, CW pest KKN39 off! (MCS)

4965 BRAZIL Radio Alvorada; 0858 Portuguese male announcer and ID, xylophone music and song; fair Feb 10 (MCS)

4970 MALAYSIA (SABAH) Radio Malaysia Sabah; all alone here at 1225 with

man in presumed Bahasa Malaysia, mentions of Malaysia and Sabah, no time signal on the half hour but man continued with definite newscast - heard dateline references (mostly Malaysia) preceeding each item, maybe Kuala Lumpur relay, to 1240 fade; Mar 3 (DMC)

5000 VENEZUELA Caracas YVTO (time station); time signals at 2256, ID + time each minute; good Feb 2, no sign of WWV (MAC)

5004 EQUATORIAL GUINEA Radio Nacional, Bata; 2150 in Spanish with political talk about upcoming elections in Malabo, mentions of Democratic Party; ID at 2153 followed by commentary and musical interludes to closing announcements at 2159, ended with long stirring anthem; good Jan 31 (MAC)

5010 SINGAPORE Singapore Broadcasting Corp; presumed the one at 2223 with half hour of US pops and EZL music, unintelligible announcements; poor Feb 17 (MAC)

5015 BRAZIL Radio Pioneira de Teresina; 0911 long talk in Portuguese, ID mentioning Radio Pioneira; Feb 10 (MCS)

5020 COLOMBIA Ecos del Atrato; presumed at 0231 with CARACOL network ID; fair Feb 10 (MCS)

5020 NIGER Voix du Sahel; in Arabic/ French at 2155 with Koran, man with ID at 2159 "Ici la Voix du Sahel", frequencies and schedule; time pips on the hour, flute IS, childrens choral anthem and off at 2202; good Feb 13 (MAC)

5040 ECUADOR La Voz del Upano; 0158 full Spanish ID with all frequencies, music to 0200 followed by program of 60's pops; poor modulation but good strength, Feb 2 (MCS)

5055 FRENCH GUIANA RFO Cayenne; 0159 drums, man in French with ID "Cayenne RFO", talk by lady; good Feb 10 (MCS)

5286 CHAD Radio Moundou; 0543 talk in French by man, 0546 drums and Afro hi-life music, then more talk with "Radio Moundou" ID; good Feb 4 (MCS)

CREDITS

MCS Mike Csorbay, Canfield; Sony ICF-2010, 200' longwire

MAC Mark Coady, Toronto; ICF-2010/ Magnavox D2999, AN-1 active antenna, 120 mb loaded windom, FRT-7700 tuner

CJM Cedric Marshall, Newmarket; NRD-525, HQ-180, Collins R388 & R390, antenna farm

DMC David Clark, Newmarket; NRD-515, Drake R4B, Collins R390A, antenna farm

JF John Fisher, Amherstview; Icom R71A, HQ-180A, 10m inverted L

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INTERNATIONAL LOGGINGS

Here is where you find out what Ontario listeners have been hearing on the International Shortwave bands, 49 through 11 meters, in recent weeks. While it's a showcase of listening results, we encourage reports which will be of benefit and interest to the casual listener as well as the seasoned DXer.

Times in UTC —— Dates in DD-MM

All Loggings in English Unless Otherwise Noted

Deadline for May Issue - April 06

Please note that the deadline for the June issue has been advanced by one week, and for your loggings to be included they should be mailed prior to April 27. Remember too, that they are to be mailed directly to me, not to headquarters. A reminder to please ensure that your reports contain the time you tuned in, (not time period), the date of reception and an indication of signal strength, in English, as well as programme content. We still have the occasional lapse, which means that some interesting loggings are omitted.

0000-0059

5960 **CANADA**: Radio Canada International, with Short Wave Listener's Digest. Heard with good reception on 27-01 at 0044. //9755.(RS)

6025 **DOMINICAN REPUBLIC**: Radio Amencer at 0040 in Spanish with religious and other music. ID of "Radio Amencer Internacional". Very good on 05-02, with only slight QRM from Radio Nederland on 6020. (MCs)

6090 **LUXEMBOURG**: Radio Luxembourg at 0028. "Top 20 Countdown",with the DJ taking phone calls for a contest. Good on 04-02.(MAC)

6150 **VATICAN STATE**: Vatican Radio with a good signal on 03-02 at 0049. ID of "Laudetur Jesus Christus, this is the English programme of Vatican Radio" at 0050. Talk of the lifting of the ban on the African National Congress by the South African Prime Minister. // 9605 was very good. (MAC)

6724.4 **PERU**: Radio Satelite in Spanish at 0108 on 14-02 with fair reception, but best ever heard. Rapid talk with several mentions of "Satelite". (MCs) (listed 1kw - ed)

7115 **U S S R**: Radio Moscow with good reception on 03-02 with programme outlook and Soviet news. //7150. (RS)

7527 **PIRATE**: KNBS, Cannabis Radio heard with a very good signal on 11-02 from 0036 with rock music, humourous ads for "Save the Nauga Foundation" , (as in Naugahyde), and "educational" features like "Cannabis and You". Claims to be owned by California Marijuana Cooperative. Off suddenly at 0115.(MCs-B)

9605 **VATICAN STATE**: Radio Vatican with female talking about drug abuse on 18-02 from 0056. Music, prayers and "News Roundup". IS at 0107, then off. (DMcK)

9915 **GREAT BRITAIN**: BBC with good reception on 29-01 with a report on the Commonwealth Games. //5975 (Antigua - ed). (RS)

9942 **CLANDESTINE**: La Voz del Cid in Spanish at 0045 with "Top Ten Americano" countdown programme of US pop/rock, including Lou Gramm and Rod Stewart's "Downtown Train".

Excellent on 06-02.(MCs)

11715 **MALI**: Radio Beijing (relay - ed) heard on 18-02 at 0045 with a programme of music. ID, times, frequencies and address at 0054, and off at 0055. (DMcK)

0100 - 0159

5875 **UNID** Transmitter Site: BBC in Spanish with very good reception. Emphasis on Latin American music, with several references to the BBC. Heard on 23-02. Off at 0200. (AG)

5975 **ANTIGUA**: BBC (relay - ed). Good reception on 05-02 at 0130 with a lady reading a short story of Blue Marlin. (RS)

5995 **U S A**: Voice of America with "Communications World". Good on 27-01. (RS)

7315 **CLANDESTINE**: La Voz de la Fundacion, via WHRI, in Spanish with an excellent signal on 21-02 from 0110 to 0120. Cuban folk music, ID and mentions of Cuba and Havana - "Ubertad" and "Cuba Libre Democratica". (RR)

7415.6 **PIRATE**: Radio USA with a fair signal on 10-02 with sign-on at 0155. Heavy QRN. ID of "Radio USA 7th Anniversary Broadcast", anchored by "Mr. Blue Sky". Original Radio USA IS, with talk and old programme spots. Lost to QRN and RTTY QRM at 0205. (RR)

7416.1 **PIRATE**: WENJ with Jack Beane, DJ, playing oldies with a fair signal on 04-02 at 0124. ID as "J-Rock USA", and "WENJ". Telephone number given as 201-525-7920 (201 is Jersey City area code - ed), and a 1-800 number for New Jersey. Off at 0241. (RR)

7416.5 **PIRATE**: WENJ, J-Rock heard on 04-02 with a very good signal from 0157 - 0220, playing 60's pop songs. Telephone number given as 201-525-7960 for QSL's, but upon trying got the message "Mailbox is full, try again later". (MCs)

7430 **GREECE**: Voice of Greece in Greek at 0125 with a very goodsignal on 17-02 with local music. English from 0130 with "This is Athens - the Voice of Greece", followed by news. Heard best in USB. //9430 was poor. (MAC-B)

9565 **MALTA**: Radio Deutsche Welle relay, heard at 0140 on 18-02. A very good signal in English, with German language lessons. Sign-off at 0150 with "This is Deutsche Welle relay station, Malta". Excellent signal on //6040, Antigua. (HK)

9575 **ITALY**: RAI - Rome. A fair signal, but heavy noise, with newscast heard on 30-01. (RS)

9615 **SRI LANKA**: Radio Deutsche Welle relay with IS heard from 0157 and ID and opening announcements in English at 0200. Poor under the Radio RSA signal on 12-02. (MAC)

9660 **VENEZUELA**: Radio Rumbos in Spanish at 0119 with the winning numbers of the "Loteria de Caracas". ID of "Radio Rumbos" and chimes, then music. Very strong on 02-02. (MCs)

9759.1 **ALBANIA**: Radio Tirana, somewhat off its nominal frequency of 9760, heard with an excellent signal on 06-02 with folk music from 0346. ID at 0349 and programme line-up. (MCs)

9875 **AUSTRIA**: Radio Austria International with a good signal at 0130 on 03-02 with news, music and interviews. //9870. (RS)

11705 **SRI LANKA**: VOA relay with an item on Chrysler and the effect of their major loss in the fourth quarter of 1989 upon the future of the Corporation. Fair to poor reception on 20-02 at 0145. (AG)

11745 **BRAZIL**: Radio Nacional do Brasil. IS heard from 0154 with a fair signal on 20-02 with QRM from a number of stations on the same frequency. ID and frequencies at 0200. (AG)

11835 **URUGUAY**: Radio El Espectador, Montivideo, with rapid-fire talk in Spanish from 0153, then pop music resembling "rap". Fair to good, and clear, on 05-02 but no positive ID. Off at 0200. Re-tuned on 06-02 at 0053

and heard a clear, drawn-out ID at 0056. Continued good, and noted past 0200. (MCs)

11880 **SPAIN**: Spanish National Radio with good reception of the programme "Panorama", with talk about Nelson Mandela. Heard 29-01. //9630 (RS)

13660 **COSTA RICA**: Radio for Peace International at 0127 with talk about marine life. ID at 0129 "This is Radio for Peace International, Costa Rica", then "European Affairs" magazine programme. Poor to fair on 29-02. (MAC)

17735 **PHILIPPINES**: VOA relay with VOA news. Weak but clear at 0101 on 07-02. (MAC)

0200 - 0259

5930 **CZECHOSLOVAKIA**: Radio Prague in Spanish, with ID heard at 0200, followed by world news. Fair reception on 23-02. (AG)

6135 **SWITZERLAND**: Swiss Radio International with "Swiss Merry-go-Round". Good signal on 18-02 at 0223, but weaker on //9885. Sign-off at 0230, then Spanish programming. (HK)

7115 **BULGARIA**: Radio Moscow relay with a good signal on 18-02 at 0237. Programme on satellite antennas in the USSR, followed by "World of Sports". (HK)

7135 **FRANCE**: Radio France International with a fair signal on 18-02 at 0240 with a report on events in Africa. // 9800 was much stronger. (HK)

7190 **MOROCCO**: VOA relay, Tangier. Heard from 0258 on 28-02 with fair reception of IS, followed by programming in Russian.(DH)

9445 **TURKEY**: Voice of Turkey in Turkish on 09-02 at 0240 with a very good signal, but with slight fading. Programme of Mid-East music. (CV)

7411.3 **PIRATE**: Radio Garbanzo at 0223 with music by Heart. ID, with DJ Fearless Fred, and fake items about Radio Moscow. Initially fair when heard on 11-02, but soon faded. (MCs-B)

7411.5 **PIRATE**: Radio Garbanzo with poor to fair reception on 11-02 at 0232. Spot for 1990 Pirate Radio Directory by George Zeller. Blues and rock music, ads, synthesized voice. ID heard. Noisy. (RR)

9475 **EGYPT**: Radio Cairo heard in Arabic at 0245 with a poor signal,but heavy fading, on 10-02. (CV) Heard in English at 0226 on 03-02 with news and, at 0228, "Let me remind you that you are tuned to Radio Cairo", followed by frequencies and address. Fair on 03-02. (MAC)

9740 **GREECE**: VOA relay with a report on pollution levels from automobiles in Mexico City. Good signal on 18-02 at 0240.(HK)

9760 **ALBANIA**: Radio Albania at 0230 on 09-02 with news of ethnic unrest in Yugoslavia and of Secretary of State James Baker's visit to Moscow. Fair signal, with QRM from RCI on 9755. ID at 0239, "This is Radio Albania". (usually Radio Tirana - ed)(CV) Heard on 18-02 with an excellent signal, for Albania, with language lessons at 0250. Sign-off at 0256. (HK)

9885 **SWITZERLAND**: Swiss Radio International, heard with a fair signal on 03-02. The programme "Swiss Merry-Go-Round", which included a good plug for "DX Ontario", followed by news and sports. (RS)

11715 **MALI**: Radio Beijing relay with a programme on travel in China on 18-02 at 0215 with a fair signal. //Spanish relay, 9690, was much stronger. (HK)

11830 **BRAZIL**: Radio Anhanguera in Portuguese with a ballad sung by a male singer, brief talk, time check, ID's, then the song "The Sound of Silence". Good reception, and in the clear, on 05-02. (MCs) (listed 1kw - ed)

11925 **BRAZIL**: Radio Bandeirantes, Sao Paulo, at 0214 in Portuguese with a strong signal on 09-02. Time check and full ID. (MCs)

15155 **ECUADOR**: HCJB, with good reception of "DX Party Line" on 29-01. // 9745. (RS)

17815 **BRAZIL**: Radio Cultura at 0219 with a varied musical programme,including classical guitar and easy-listening vocals. ID at 0229. Poor to fair, but readable, on 09-02. (MCs)

17795 **AUSTRALIA**: Radio Australia with a good signal on 02-02 at 0238 with live coverage of the Commonwealth Games, covering track and field events. Not / /21740. (MAC)

21650 **SRI LANKA**: Radio Deutsche Welle relay with IS heard from 0258 with a good signal on 19-02. ID in English and Pashto/Dari. ID of Sri Lanka relay during sign-on. Programming in Pashto/Dari. (RR)

0300 - 0359

6020 **NETHERLANDS**: Radio Nederland in Spanish to the Caribbean with an excellent signal on 26-02 from 0302. Recording of Nana Mouskouri with a beautiful rendition of the "Chorus of the Hebrew Slaves", from Verdi's Nabucco. (AG)

7255 **BOTSWANA**: Radio Botswana with the usual "barnyard" IS from 0352 and choral anthem at 0358. ID and frequencies, in listed SeTswana, at 0400 followed by religious music. Bible reading and inspirational talk in English, then back to vernacular at 0405. Fair on 04-02. (MAC)

7400 **UKRAINIAN SSR**: Radio Kiev, with fair reception on 16-02 at 0300 with news, including reports on the unrest in Uzbekistan and of Lithuanian cities adorned with national flags, commemorating the declaration of independence on February 16, 1918. (KJ)

7415v **PIRATE**: CHBO, heard with a very weak signal on 03-02 at 0311. ID at 0316, then DJ talking about his reasons for broadcasting as a pirate. Mention of serving the Chicago area from a location "on the shores of nearby Lake Michigan". (MAC)

9505 **U S A**: WYFR, Family Radio, with transmitters in Florida. "Open Forum", a talk programme with listeners on religious topics. Address, Oakland CA, and telephone at 0330. (DMcK)

9535 **NETHERLANDS ANTILLES**: Trans World Radio with the programme "Wavelengths", a DX programme. Good reception on 03-02 at 0330. (RS)

9545 **ANTIGUA**: Radio Deutsche Welle (Caribbean relay - ed) with fair reception on 03-02 with news, sports and a musical request.(RS)

9690 **SPAIN**: Radio Beijing relay with Chinese folk music. Heard on 05-02 at 0325. Very good signal, but with an echo, indicating multi-path reception. (MAC)

9800 **FRENCH GUIANA**: Radio France International relay heard with a fair signal on 03-02 at 0340 with "Focus on France". (RS)

9965 **CLANDESTINE**: Radio Caiman in Spanish at 0341 with Latin American music. ID at 0352, "Aqui Radio Caiman", followed by station information. Very good on 03-02. (MAC) Heard 07-02 with fair reception at 0310 in Spanish giving an "informative programme on the famous cafes and restaurants of Paris", describing ambiance, menus, location, those who frequent now and celebrities who frequented in the past. Punctuated with French songs, including Edith Piaf's "L'Amour" at 0320 and again at 0327. ID and frequency at 0331. (KJ) (Editor's note: Karlis asked about getting a QSL from Radio Caiman, but to our knowledge no address has ever been turned up for this station.)

11820 **CUBA**: Radio Havana Cuba with news round-up at 0332, including items on a US attack on a Cuban merchant vessel and a workers'strike in Peru. Excellent signal on 06-02. (CV)

17680 **NEW ZEALAND**: Radio New Zealand International with a test match between India and New Zealand. Fair, with some QRM, from 0330. Heard on Panasonic B65. (DH)

0400 - 0459

7255 **NIGERIA**: Voice of Nigeria, with IS of rolling drums heard at 0458 on 17-02

with a good signal, but with moderate background noise. Anthem at 0459, ID, summary of programmes to 0900,then African musical selections. (HK)

7370 **TURKEY**: Turkish Police Radio in Turkish with a fair signal on 23-02. IS from 0453 to 0456, then National Anthem til 0458. ID, followed by mention of Ankara. Music, with local string music and Turkish vocals. (RR)

9435 **ISRAEL**: Kol Israel, Jerusalem heard on 0458 to 0515 on 18-02. Time pips at 0500. ID and morning news and weather in English. ID at 0515 in French. (DMcK)

9505 **U S A**: WYFR Family Radio. An excellent signal with "Quiet Hour", heard on 18-02 at 0402. (HK)

9600 **ASCENSION ISLAND**: BBC World Service (relay - ed), beamed to South and East Africa, with female reading letters from listeners from 0435 on 18-02. ID at 0458, then music. (DMcK)

9730 **EAST GERMANY**: Radio Berlin International with good reception of talk of student lives on 16-02 at 0408, followed by music. ID at 0411 for "Africa Service", with address, then off at 0413 with IS. (May have been a tape, or a change in service,as this frequency is listed in the ILG for North America/ Caribbean at this hour - ed). (KJ)

11785 **EAST GERMANY**: Radio Berlin International, with fair reception of a news report. Heard on 18-02 at 0408. (HK)

11820 **CUBA**: Radio Havana Cuba. Fair reception, with some fading, of a newscast. Heard at 0430 on 18-02. (HK)

11940 **LESOTHO**: BBC relay, Maseru, seAfrica service with a poor to fair signal heard above Radio Jordan's Arabic signal. Talk about leprosy at 0455. "Lillybolero" a 0459, time pips and ID followed by the news. Heard 25-02. (DH)

15170v **TAHITI**: RFO Papeete with talk in French at 0415. ID at 0417,"Ici Papeete", then island music. Fair on 02-02. (MAC)

15325 **SEYCHELLES**: FEBA in Arabic at 0421 on 04-02 with a fair signal. Programme of religious music and talk. ID and closing announcements at 0441. ID and IS of "What a Friend We Have in Jesus" at 0445, then off. (MAC)

15420 **SEYCHELLES**: BBC relay heard with a fair signal on 04-02 at 0416. "Newsdesk", featuring a report on thefts from an archeological site near Mt. Vesuvius. (MAC)

0500 - 0559

6015 **CANADA**: Radio Austria International, Sackville relay, with a talk on computers and their effect on our lives. Very good reception on 06-02 at 0552. Broadcast schedule given at 0554,then the announcement "This transmission is relayed via Radio Canada" at 0556 and immediately into Spanish. (CV)

6185 **U S A**: WRNO, New Orleans, heard signing off at 0558 on 06-02 with the note "We QSL 100%". Strong signal, followed by IS. Upon shutdown of transmitter, Radio Vatican could be heard with a poor signal and heavy QRM, with a news report including the reopening of ties with Hungary. (CV)

7255 **NIGERIA**: Voice of Nigeria heard on 06-02 at 0510 with commentary on Nelson Mandela and South African reforms. This was followed by songs about Mandela, such as "Free Mandela", by an African group. Fair to good reception with periodic heavy fades. News summary at 0531. (CV) Heard at 0532 on 04-02. A very good signal, with news and the ID "This news comes to you from the Voice of Nigeria" at 0536. Main points of the news high-lighted at 0540, then "Lagos Commentary", with talk about re-shaping the Commonwealth. (MAC)

7315 **U S A**: WHRI, Noblesville, Indiana. An excellent signal on 19-02 at 0545 with a programme of religious music. Advertising for Universal Short Wave, including an offer of their catalogue free, rather than for the usual fee ofUS$1.00, if WHRI is mentioned. (HK)

7520 **U S A**: WWCR, Nashville, Tennessee, with religious messages by the Rev. Paul Smith of the Old Country Church. Listeners were invited to receive a cassette and literature by writing to the Church in Sarcoxie, Missouri, 64862. Excellent reception on 19-02 at 0554. (HK)

9580 **GABON**: Africa Numero Un in French at 0546 with pop music. Addresses in Douala and Cotonou for the station. ID at 0550. Excellent on 13-02. (MAC)

9630 **SPAIN**: Radio Nacional de Espana heard on 18-02 from 0520. Female announcer reading letters from listeners. Music at 0535. ID and address. (DMcK)

9670 **ANTIGUA**: Radio Deutsche Welle, Caribbean relay, with news of Hans Modrow's call for the orderly unification of East and West Germany, and for the set-up of an interim government in East Germany until elections in the Spring. Very good, with slight background noise, on 06-02 at 0500. (CV)

11940 **LESOTHO**: BBC relay heard at 0517 with talk about the Slovenian elections and the chance of the Communists being re-elected. Fair but noisy on 05-02. //with other World Service frequencies. (MCs)

15170 **TAHITI**: RFO Polynesie, Papeete. Having just "slopped" home,the day after one of the worst snow/freezing rain storms of the winter, I decided that the only solution was to try for Tahiti. To my delight, it came in with better than usual reception! Beautiful island music! Talk in French and Tahitian. Heard from 0535 on 17-02, with no sign of the "het". (AG)

17680 **NEW ZEALAND**: Radio New Zealand International. An interview with a Presbyterian minister from Polynesia, with questions in English and answers in vernacular, followed by island music. ID at 0531 "Radio New Zealand International", local weather and an update on Cyclone Penny which was wreaking havoc on the Cook Islands. ID for "RNZI and our Pacific Service" at 0533, then island music. Excellent reception from the new 100Kw transmitter on 15-02. (MAC)

21715 **HONG KONG**: BBC relay caught at 0543 with the conclusion of "Words of Faith". ID and programme high-lights at 0544,followed by "letter from America", with Alistair Cook. Very weak on 04-02. (MAC)

0600 - 0659

6230 **ECUADOR**: HCJB at 0605 on 06-02 with "DX Party Line". A talk on how to snare rare Utility DX, a list of best "catches" followed by admonition about proper etiquette in QSL'ing Utilities. Very good signal and some great tips. (CV) Heard on 13-02 with a very good signal at 0603. "DX Party Line, with reports on Shortwave Radio Week, Radio Nepal and including James Careless' "ODXA Report". (MAC)

6305 **CLANDESTINE**: La Voz del Cid in Spanish with a good signal at 0602 on 25-02 with the usual talk and music. (AG)

7265 **WEST GERMANY**: Sudwestfunk, Baden-Baden with news in German from 0603 to 0611, then ID that sounded like "Hier ist die Sudwestfunk...". Programming consisted of North American and European pop music. Good on 04-02. (MCs)

9600 **ASCENSION ISLAND**: BBC relay, beamed to West Africa. A fair signal on 19-02 at 0610, with UNID co-channel QRM. News programme, with //9640, via Antigua to Central America, stronger. (HK)

9745 **ECUADOR**: HCJB, Quito. A fair signal on 19-02, at 0622, with interviews with visitors to Ecuador. (HK)

11550 **TUNISIA**: RTV Tunis, Sfax. Heard from 0647 on 23-02. Two men talking in presumed Arabic, with Mid-East music. ID at 0700,followed by an apparent news programme. Good signal, with slight fading. (DH)

15160 **AUSTRALIA**: Radio Australia, heard with a fair signal on 04-02 at 0648 with music including "Mary Parker's

Lament". QRM from a station in German. IS of "Waltzing Matilda", ID and frequencies, including 17630, a new one on this Sunday evening. Time pips at 0700, ID and news. QRM from Radio Sofia, with ID in Bulgarian and French. Less QRM by 0725, with a good signal coming through. (KJ)

17740 **CYPRUS**: BBC relay with World Service news. Excellent on 0602 on 24-02. (DH) (Editor's note: Listed Cypress in PPWBR,Ascension in ILG)

0700 - 0759

5950 **U S A**: Voice of Free China (via WYFR - ed) with a "Happy New Year's" party for the Chinese new year, and talk on food for China. Good on 29-01 from 0730. (RS)

6005 **WEST BERLIN**: RIAS with talk in German and German pop music. ID at 0716 "Hier ist RIAS Berlin - Rundfunk im amerikanischen Sektor". Fair to good on 13-02 from 0709. (MAC)

6306 **CLANDESTINE**: La Voz del Cid in Spanish with a round-table discussion dealing with Central America, Cuba, the US, Nicaragua and Panama. Interrupted at 0730 with ID "La Voz de Cuba, Independiente y Democratica ". Very good on 13-02 from 0725. (MAC)

15160 **AUSTRALIA**: Radio Australia at 0729 with a very good signal on 14-02 with closing announcements, followed by the programme "Land and Culture" at 0730. (MAC) (Editor's Note: The East/Central Asia service closes at 0730, but programming continues to the Central Pacific and Western North America until 0800).

0800-0859

5995 **AUSTRALIA**: Radio Australia with IS of "Waltzing Matilda" heard with a fair to good signal on 13-02. ID, frequencies and programme high-lights. Sports at 0830. //9580. (MAC)

6130 **CANADA**: CHNX, relay of CHNS, 960 MW, Halifax. Heard with a good signal on 13-02 at 0821 with an ad for Kelly Temporary Services, then Rolling Stones. (MAC)

6206 **PIRATE**: Radio Orang Utang - Holland with a poor signal on 11-02 from 0811. ID heard. Address given phonetically as "Box 114, Sheerenberg, Holland" at 0815. Mixture of music and talk, the latter being clearer. (RR)

6320 **PIRATE**: Radio Stella from 0844 - 0903 on 28-01 with a poor to fair signal, featuring 60's music including the Moody Blues, The Troggs, etc.. No ID heard, but probable ID suggested by Robert Ross. Arrival of QSL on 19-02 confirmed Robert's suggestion. (MCs-B)

9630 **NETHERLANDS ANTILLES**: Radio Nederland relay (beamed to Australia and the South Pacific - ed) with good reception on 29-01 of a programme on mercy killing. (RS)

9860 **ITALY**: IRRS, Milan, heard from 0821 to 0850 on 18-02. A fair signal, with man reading listener's letters. ID of "I double R S". Mailing address given, and telephone number, then UN Radio via IRRS at 0832. (RR) (Listed 9865. Is this a change, typo or variable? - ed)

15045 **PIRATE**: Voice of the Netherlands in English from 0821 to 0843 tune-out. Current pop/rock music including Simple Minds, U2 and Bon Jovi. Missed the complete ID, but got same from Robert Ross. Poor to fair on 28-01, with QSL arriving 19-02. (MCs)

0900 - 0959

6160 **ANTIGUA**: Radio Deutsche Welle, Australia/SE Asia/Pacific beam, with an excellent signal on 13-02, heard from 0900. ID of "This is Radio Deutsche Welle broadcasting from the Federal Republic of Germany in Cologne", followed by frequencies and news. (MAC)

6180 **BRAZIL**: ZYE365, Radio Nacional da Amazonia, Brasilia, heard in Portuguese at 0953 with beautiful Brazilian ballads. ID at 0955 of "Radio Nacional da Amazonia do Brasilia". Good reception on 13-02. (MAC)

6116 **COLOMBIA**: La Voz del Llano, Villavicencio, in Spanish. Latin American music heard with a fair to good signal on 14-02 from 1042. Talk in Spanish, with mentions of Colombia and Bogota. Ad for a local shop, then back to music at 1051. (MAC)

6160 **NEWFOUNDLAND**: CKZN at 1000 with time-check for 6:00 Atlantic time (not 6:30 Newfoundland time). CBC news followed by Newfoundland news, then music by Sylvia Tyson at 1008. Fair on 14-02. (MAC)

1100 - 1159

6020 **NETHERLANDS ANTILLES**: Radio Nederland relay heard on 04-02 with a good signal. The "Happy Station", with Eddie and Rosemary. (RS)

6120 **CANADA**: Radio Japan relay with IS at 1100 and ID's in English and Japanese. Opening was "It's 8:00 pm on Wednesday, here in Japan". Excellent signal on 14-02. (MAC)

9580 **AUSTRALIA**: Radio Australia with good reception on 04-02 with the programme "One World" at 1130. (RS)

11930 **AUSTRALIA**: Radio Australia, Brandon transmitter site, 10 kW, with "One World" program, host Michael Wagner conducting an interview dealing with addiction at 1150. Poor-fair till WSHB sign-on at 1200, 04-03. (HTS)

1200 - 1259

9540 **UZBEK SSR**: Radio Tashkent heard in English at 1216 with man reading news, followed by ID by female announcer "You are tuned to Radio Tashkent". Music until sign-off at 1228. Fair with some fading on 28-02. (DH)

9665 **CHINA**: Radio Beijing with Chinese music. ID in English at 1254, with frequencies announced at 1255 sign-off, followed by string music. (No date given - ed) (DH)

15150 **USSR**: Radio Moscow World Service at 1232, "News in Brief" followed by a rock music program, sounding like what you'd hear on KUSW! Good 18-02. (HTS)

15195.2 **BANGLADESH**: Radio Bangladesh with musical intro, woman with sign-on ID and announcements in English. Very weak 18-02. (HTS)

15210 **CHINA**: Radio Canada International relay, Xian with sign-on at 1259 with IS. World and Canadian news, including a report on the budget and hockey scores. Poor. (No date given - ed) (DH)

25645 **BELGIUM:** RTBF Brussels in French to Africa, with programme of jazz. Heard at 1253 on 03-03 with a fair signal. (AG)

25740 **WEST GERMANY:** Radio Deutsche Welle in German with good reception on 03-03 at 1255. (AG)

25790 **SOUTH AFRICA**: Radio RSA in French, heard with a poor signal on 03-03 at 1256 in the process of signing off. IS at 1257. (AG)

1300 - 1359

9565 **INDIA**: All India Radio with open carrier at 1325, then IS from 1327. ID at 1330 "This is the General Overseas Service of All India Radio", followed by frequencies and the news. Good on 16-02. (MAC) Heard with a very good signal on 08-02 with test tone from 1322 - 1328, then string IS. ID at 1330 followed by news. //11760 barely heard under Cuba, and 15535 heard with a fair to good signal on 09-02. (MCs)

9580 **AUSTRALIA**: Radio Australia with a report on the Commonwealth Games. Good reception on 28-01. (RS)

9760 **PHILIPPINES**: VOA relay at 1343 with "Agriculture Report" about hydroponic gardening in Colombia (for veggies, not pot!). ID at 1345, followed by a science programme in Special English. Strong with slight flutter on 06-02. (MCs)

11550 **TAIWAN**: WYFR relay heard at 1356 with the conclusion of a programme in English. Family Radio ID, followed by announcer reading letters. Fair to

good on 06-02. (MCs)

11650 **NORTHERN MARIANA ISLANDS**: KFBS, Saipan in Russian with talk and religious music from 1334. Piano and organ music at 1358, brief IS, closing announcements and off at 1400. Fair on 02-02. (MAC)

11980 **GUAM: KSDA** Agana heard with a fair signal from 1348 on 25-02 in Japanese. Trumpet fanfare at 1355, music, then "This is Adventist World Radio, KSDA, Guam". Programming continued in Mandarin. (DH)

15210 **CHINA**: Radio Canada International relay with a report on Mulroney's foreign relations initiative with Asian countries. Poor to fair at 1313 on 13-02. (MAC) Heard at 1320 on 09-02 with good reception of a report on the French/English language difficulties in Ontario. ID as RCI to seAsia at 1325. (MCs)

15325 **YUGOSLAVIA**: Radio Yugoslavia with news heard from 1300. Good reception on 04-02. (RS) Heard with a fair signal on 22-02 at 1321 with weather and local traffic problems. Lost to VOA at 1358 with "Yankee Doodle". (DH)

15420 **SEYCHELLES**: BBC World Service relay heard at 1320 on 23-02. Heavy QRM from RCI in French on 15425. (DH)

17630 **GABON**: Africa # 1 heard in French from 1318 on 05-02 with modern African music. ID at 1320. Fair with some QRM, but improving until 1332 tune-out. (DH)

21665 **ROMANIA**: Radio Bucharest with a report that bookstores no longer have to stock propaganda books, and are now awaiting new titles. Good on 20-02 at 1323. (HK)

1400 - 1459

7417 **PIRATE**: Radio USA at 1426 with a fair to good signal. ID by announcer Mr. Blue Sky, commentary by Greyhawk character, mention of Thanksgiving broadcast, address and plug for ANARC SWL net. Off at 1433. (MCs-B) (No date given - ed)

9530 **NORTHERN MARIANA ISLANDS**: KHBI with news from 1402. ID at 1406 of "World Service of the Christian Science Monitor", then "News Focus". Poor on 16-02. (MCs)

9540.6 **VENEZUELA**: Radio Nacional at 1408 in Spanish with presumed news, with many mentions of Caracas. Many ID's, including "Radio Nacional de Venezuela" at 1410, then address and frequencies. Pop music from 1412. Good on 06-02. (MCs)

9580 **AUSTRALIA**: Radio Australia. A good signal on 10-02 at 1445 with a feature on the Philippines and four year's of Corazon Aquino's "People Power" and its attendant problems. Good signal. (CV)

9750 **SOUTH KOREA**: Radio Korea, Seoul, with a poor to fair signal on 20-02 at 1400. National anthem, ID and frequency schedule, followed by news. (HK)

11780 **AUSTRIA**: Radio Austria International at 1454 with classical music, followed by ID, frequencies, times and target areas for upcoming broadcasts. Fair to good on 08-02. (MCs)

11955 **CANADA**: Radio Canada International with good reception on 04-02 of the programme "Sunday Morning" and the news. (RS)

11980 **GUAM**: KSDA in listed Chinese at 1414 with man preaching in English, with immediate Chinese translation. Interview programme at 1430. Fair to good, but fluttery, on 17-02. (MAC-B)

15160 **PHILIPPINES**: VOA relay at 1425 with an ad for a jazz programme, then report on China. Good on 08-02. // 9760, Philippines, was also good. (MCs)

15205 **GREECE**: VOA relay, Kavalla, at 1420 concluding a report on China's plans to limit the number of students allowed to study abroad. Good but noisy on 08-02. (MCs)

15400 **FINLAND**: Radio Finland heard on 10-02 at 1445 with language lessons

in conversational Finnish. Poor, with noise and fading. //21550 was better. (CV)

15575 **SOUTH KOREA**: Radio Korea, Seoul, at 1401 with schedule and frequencies, then "And now we begin to-day's transmission on Radio Korea". Good, but fluttery, on 17-02, as was //9750. (MAC-B)

1500 - 1559

7335 **CANADA**: CHU time signal station. Good signal in an otherwise "dead" band on 10-02 at 1521. (CV)

11650 **GUAM**: KTWR at 1516 with Arthur Cushen's DX report on "Pacific DX Magazine". Address and schedule at 1527, then "Children's Bible Hour". Good, but fluttery, on 17-02. (MAC-B) Heard at 1526 on 04-02. Religious booklet offer with address in Grand Rapids MI, Trans World Radio ID and address in Hong Kong at 1530. Understandable with some effort. (MCs)

21535 **SOUTH AFRICA**: Radio RSA. A poor signal, with fading, at 1500 on 10-02. News of the African National Congress and the white Conservative party. ID at 1505 "This news comes to you from the voice of the Republic of South Africa". (CV)

21600 **WEST GERMANY**: Radio Deutsche Welle, with a fair signal of a news report on 20-02 at 1510. QRM from strong signal on 21605 from UAE, Dubai. (HK)

25790 **SOUTH AFRICA**: Radio RSA at 1519 with the mailbag portion of "Africa To-Day", with letters from listeners. Good on 04-02, with //21535 very good. (MAC)

1600 - 1659

11790 **CLANDESTINE**: Radio Libertas, via WHRI, at 1604 with ID and schedule in English. Talk in Croation, with folk music, followed. Very good on 15-02. (MAC)

15130 **MALI**: Radio Beijing relay heard at 1604 with world news, followed by ID. Fair to good on 05-02, with slight echo.(MCs)

21605 **UNITED ARAB EMIRATES - DUBAI**: UAE Radio with an excellent signal on 18-02 at 1625 with a programme of music. News from 1630, with sign-off of English Service at 1643. (HK)

1700 - 1759

15650 **U S A**: KUSW, Salt Lake City with "Music and the Spoken Word", with the Mormon Tabernacle Choir singing "Dixie", and a medley called "Memory Lane". The 3156th broadcast, continuing the 61st year. Very good on 25-02 at 1717. (AG)

17605 **NETHERLANDS ANTILLES**: Radio Nederland in Dutch with a church service. Very good on 25-02 at 1710. (AG)

17890 **SPAIN**: Radio Nacional de Espana in Spanish to Africa. Very good on 25-02. ID at 1705, followed by a sportscast. (AG)

1800 - 1859

11734.3 **TANZANIA**: Voice of Tanzania at 1818 in UNID language, (Swahili listed). Female announcer, then brief talk by man from 1825 to off at 1827. No positive ID heard. Good on 04-02. (MCs) (Listed as being located in Dole, Zanzibar - ed)

15140 **PORTUGAL**: Radio Portugal broadcasting in Portuguese to South America. Primarily talk, with occasion short musical interludes. Heard on 11-02 from 1802 with a fair signal. ID at 1804. (AG)

15475 **GABON**: Africa # 1 in French at 1845 on 17-02. ID at 1846, then reggae-type music. (DMcK)

15560 **MADAGASCAR**: Radio Nederland relay with comedy programme, before a live audience, heard with very good reception on 25-02 at 1850. Music from 1855 with a Dutch group singing "Ordinary People", followed by music and interviews from St. Maarten, which Tom Meyers had visited just a few

weeks previously. Off at 1925. (AG) Heard 1839 with Tom Meyer's "Happy Station" programme featuring music by an Argentinian duo. Good on 04-02. //17603, Bonaire, beamed to West Africa, was also good. (MCs)

1900 - 1959

9560 **JORDAN**: Radio Jordan heard in Arabic with talk and traditional Mid-East music. Fair, with noise, at 1955 on 10-02. (CV)

9700 **BULGARIA**: Radio Sofia with a programme on the turbulent history of the Balkans, concentrating on the Serbs and Croatians. Poor with fading on 10-02 at 1940. (CV)

9951.1 **SYRIAN ARAB REPUBLIC**: Radio Damascus in French with Mid-East music. ID "Vous ecoutez Radio Damas", followed by news. Very good signal on 06-02. (MCs)

11780 **MOROCCO**: VOA relay with ID at 1959, brief silence, IS and announcement that "the following programme is in Bulgarian". Fair on 04-02 with QRM from Brazil. (MCs)

11810 **INDIA**: All India Radio, Delhi, at 1949 with commentaries about Pakistan and Sri Lanka, music from 1955 and ID for General Overseas Service on the hour. News from 2000. Good 08-02. Very good when re-tuned at 2150. //11620. (MCs)

13610 **KUWAIT**: Radio Kuwait with an excellent signal on 17-02 at 1932. Standard format of European and North American pop music. Closing announcements at 1843. (MAC-B)

15010 **VIETNAM**: Voice of Vietnam with a fair signal on 04-03 at 1915 with Vietnamese music. English programming concluded at 1925 with frequency list and mailing address. ID and off at 1926. (AG)

15375 **SPAIN**: Spanish National Radio at 1940 with "DX Spot". Man and woman commenting on listeners who send reports asking for one of everything; also DX tips from a German DX club magazine. Very good 18-02. (HTS)

15560 MADAGASCAR: Radio Nederland relay with a fair signal at 1905 on 19-02. Beamed to East Africa, a programme with a report on fertilizers. (HK) Heard with a good signal on 23-02 at 1929 with ID. Some co-channel QRM. (DH)

17705 **LIBERIA**: VOA relay, Careysburg, with poor reception of a news report in French on 19-02 at 1930. //17640, Greenville, NC, was much stronger. (HK)

21566.4 **COSTA RICA**: Radio for Peace International heard at 1956 with the conclusion of a song by Tracy Chapman. ID and programme schedule for the remainder of the broadcast. Poor, fair on peaks, on 06-02. (MCs)

2000 - 2059

9950 **SYRIAN ARAB REPUBLIC**: Radio Damascus heard with a fair, but very noisy, signal on 10-02 at 2007. Local pop music, followed by news at 2110 about the Christian strife in Beirut and problems in the occupied territories. (CV) Heard with a good signal on 03-02 at 2006 with ID, programme high-lights, news and Mid-East music. (MAC)

11960 **DODECANESE ISLANDS**: VOA relay, Rhodes heard in Arabic at 2025 on 18-02. Yankee Doodle at 2029 followed by talk and music. Poor signal with heavy QRM and QRN. Found thanks to Mark Coady's listing in the February issue. (DH)

15205 **MOROCCO**: VOA relay heard from 2033 on 22-02 with a good signal. ID, followed by continuation of "The Voice of America Jazz Hour" with music by Herbie Hancock, Chick Corea and Benny Goodman. (DH)

15540 **BELGIUM**: RTBF Brussels in French with a fair signal on 11-02 at 2058. Sign-off shortly after the hour, xylophone IS and off the air at 2106. (AG)

2100 - 2159

7189v **EQUATORIAL GUINEA**: Radio Africa with "Radio Bible Hour", a programme

with Bible readings, preaching and hymns. Poor to fair, with het, on 31-01. (MAC)

7230 **GREAT BRITAIN**: Radio Canada International relay, via Daventry, in French at 2129 with ID "Ici Radio Canada Internationale", followed by programming in French. Fair to good on 05-02. (MCs)

7450 **PIRATE**: Tentative logging of Samurai Radio with male DJ, similar to "Mr. Blue Sky" from Radio USA. Idle banter and chat. Heard 10-02 from 2155 - 2206. (RR)

9580 **GABON**: Africa # 1. Station ID in French, followed by "Informations", at 2104 on 18-02. Good signal. (DH)

11620 **INDIA**: All India Radio with a poor signal on 11-02 at 2120. Mostly talk, but with some sub-continent music. (AG)

12005 **TUNISIA**: RTT Tunis. Home Service in Arabic with Mid-East music. Fair signal, but noisy, on 18-02 at 2115. (AG)

15160 **AUSTRALIA**: Radio Australia heard at 2147 on 11-02 with a very good signal. Programme of Australian and international pop hits. (MAC)

15185 **U S A**: WINB, Red Lion, PA with a programme of religious music, heard on 05-02 at 2106 with a good signal. (MAC)

15330 **BULGARIA**: Radio Sofia heard from 2128 with IS, followed by ID and the full day's broadcast schedule for Europe and North America. Everything was given in meters, not hertz. Programming continued with news. Very good on 0403. (AG)

17705 **LIBERIA**: VOA relay in French on 22-02 at 2133 with a good signal. Talk of Senegal, then music for classical guitar with harp accompaniment. ID in French at 2150. (DH)

17760 **ANTIGUA**: BBC World Service, beamed to South America, with good reception on 04-02 at 2100. (WEB)

17810 **ANTIGUA**: Radio Deutsche Welle relay in German at 2113 to South America with talk of political matters, music, then talk of a children's carnival. Latin songs sung in German at 2121. Excellent signal on 18-02. (DH)

21740 **AUSTRALIA**: Radio Australia with IS from 2157, pop music at 2159 then frequencies and a welcome to listeners on 21740. Time pips at 2200, followed by "International Report". (MAC)

2200 - 2259

5995 **MALI**: RTV Malienne, Bamako, in French at 2225, with a programme of Afro music, with a Latin influence. Good signal through an UNID co-channel station on 08-02. //4835.4 was very good. (MCs)

6050 **UNID**: Possibly Radio Nigeria, Ibadan. A good signal from 2216 on 06-02 with African tribal music and vocals. UNID language. Lost to a station with a four-note IS at 2224. (MCs)

6933 **CHINA**: Radio Beijing in Spanish at 2236 on 15-02 with a programme of Chinese folk music. Good reception. (MAC)

7188.6 **EQUATORIAL GUINEA**: Radio Africa with a religious programme heard with a very good signal on 04-02 from 2226. Conclusion of a religious programme, with cassette offer and an address in West Virginia. An offer of a T-Shirt for Radio Africa and Radio East Africa, for US$20, from Pierce International Communications in Cupertino, CA. (MCs)

7375 **PIRATE**: Samurai Radio with good reception on 10-02 from 2240. ID and Slanesville address. Said to check 19 meters later, but nothing heard. Abruptly off at 2241. (RR)

7425 **PIRATE**: WLAR with a good signal on 03-02 from 2210. Two announcers with talk about golf game. Read letters. Talk on phone with Dr. Ruth spoof. Wellsville, NY mail drop. Phone number of 508-526-1146. (Worcester, MA area code - ed). ID's of WLAR. Off at 2236. (RR)

9435 **ISRAEL**: Kol Israel heard on 05-02 at 2230. News of the tragic attack upon an Israeli tour bus is Egypt and its effect upon the peace process. Israeli news round-up at 2240, followed by "Mailbag" at 2241. (CV)

9660 **YUGOSLAVIA**: Radio Yugoslavia at 2200 on 10-02 with news of the imminent release of Nelson Mandela and Soviet - US arms cut, followed by commentary. (CV)

9925 **BELGIUM**: BRT Brussels with "Radio World" heard on 10-02 at 2209. A list of updates and frequency changes for New Zealand and Radio Vilnius, including a taped segment of Radio Vilnius sent in by a listener. Music from 2214. (CV)

11750 **SINGAPORE**: BBC World Service relay heard with a fair signal on 24-02 at 2209. //11955. (DH)

11985 **UNITED ARAB EMIRATES** - ABU DHABI: Voice of the UAE, beginning their two-hour English broadcast with a religious message, followed by a quiz. Good on 06-02. (RS)

15225 **NORWAY**: Radio Norway International at 2213 with "Norway To-day", with an interview with a climatologist about global weather patterns. ID at 2215, then mailbag programme. Very good on 11-02. (MAC)

21565 **COSTA RICA**: Radio for Peace International with "UN Radio from New York". A feature about Women's Rights and changes needed to bring about a better future for women around the world, followed by a feature on the United Nations Declaration on Human Rights. (CV) Heard closer to 21566 on 07-02 at 2228 with a good signal. News of the United Nations, ID, then a programme on African affairs. (MAC)

2300 - 2359

7400 **LITHUANIAN SSR**: Radio Vilnius heard from 2300 on 05-02 with reports of ethnic disturbances in Azerbaijan and other areas. Very good, but with some UNID QRM. (CV). Heard on 07-02 at 2300 with a good signal. ID, frequencies, programmes highlights and then news of Lithuania. (MAC)

9760 **ALBANIA**: Radio Tirana heard 05-02 at 2330 with commentary on Serb-Albanian clashed in Yugoslavia. ID at 2339, then news of Soviet troop withdrawals from Eastern Europe. Poor signal with heavy noise. (CV) Heard on 11-02 with music at 2308 on 11-02, with ID, news and interviews from 2330. (DMcK)

11835 **GABON**: Radio Japan relay heard at 2333 with "Asia To-day", featuring a report on new airlines in the Orient. ID at 2336 "This is Radio Japan, the overseas broadcasting service of NHK in Tokyo". Fair to good on 06-02. (MAC)

17830 **SINGAPORE**: BBC relay with "International Recital" at 2356, a classical music programme. "Newsdesk" at midnight. Good but fluttery on 13-02. (MAC)

Another excellent turnout for the column, with many interesting catches. As I write this, many of the "spring" frequency changes have already taken place, and ID'ing a station is not as easy. Persistence, however, is the key. Many thanks to all of our contributors.

Initials/Name and Location
Receiver(s) Antenna(s)

WEB Bill Ball, Oakville
Kenwood R-5000, 50 ft wire N/S

MAC Mark Coady, Toronto
Magnavox D2999, Sony ICF-2010, Sony ICF-6500W, AN-1 Active, 60 ft wire, 120mb loaded windom, FRT-7700 tuner

MAC-B Mark Coady, Bridgenorth
Sony ICF-2010, 80 ft wire

MCs Mike Csorbay, Canfield
Sony ICF-2010, 200 ft longwire

MCs-B Mike Csorbay, Brantford (Paul Goliboski's)
ICOM R-71A, Various Antennas

DH David Harrison, Toronto

DH David Harrison, Toronto
JRC NRD-525, 144 ft random
Sony ICF-2010 - roof terrace, Panasonic B65 100 ft random

KJ Karlis Jansons, Willowdale
Sony ICF-2010, 80 ft wire, Grove Mini-tuner

HK Harvey Kader, Scarborough
JRC NRD-525, Grundig Satellit 650, Sony ICF-2010, Sony AN-1 Active

DMcK Dave McKenna, London
Realistic DX-400, whip

RR Robert Ross, London
Kenwood TS440SAT, Vertical; TS430S, Sony 2010, Longwire/Dipole

RS Robert Sacerty, Sarnia
Realistic DX-440, 120 ft. wire

CV Chris Vassbotn, Temagami
Sony ICF-2010, 30 ft. indoor

HTS Harold Sellers, Newmarket
Japan Radio NRD-515, 60 m. Windom, 50' wire

AG Al Gastle, Willowdale
Sony ICF-6800W, DA100D Active

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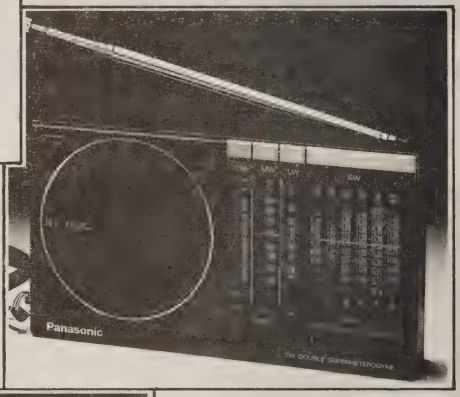

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RF-B65

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- ❑ $2.00 ppd **DXer's Shortwave Radio Country List** - NASWA country list and rules, with detailed maps. Keep track of the countries you hear.
- ❑ Free **ODXA Membership Directory** - current Sept. 1989. A listing of full and associate members (both alphabetically and geographically). Available to ODXA members only.
- ❑ Free **ODXA Brochure** - 8-1/2"x11" brochure introducing the DX hobby and the ODXA
- ❑ Free **ODXA Business Card** - great to give to those seeking further information about the club. Small quantity sent.
- ❑ $8.00 +T **ODXA Coffee Mug** - blue, 10 oz., "DXers are Fine Tuned Individuals" design
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- ❑ $9.50 **Pirate Radio Directory**, 1990 edition - by George Zeller, survey of pirate activity in 1990, lots of info, including addresses
- ❑ $25.00 **World Radio TV Handbook, 1990 edition** - all stations listed, frequency lists, addresses, schedules and much more; also articles and reviews
- ❑ $18.00 **Passport to World Band Radio, 1990 edition** - a best seller; graphical listings of SW stations by frequency 2.0 to 25 MHz; plus articles, equipment reviews
- ❑ $22.00 **Confidential Frequency List**, 7th edition - an excellent reference to utility listening - covers aeronautical, maritime, fixed stations
- ❑ $20.00 **Shortwave Directory**, 6th edition - New, just released by Grove Enterprises. A top utility reference.
- ❑ $16.00 **Time Signal Stations**, 11th edition by Gerd Klawitter, lists and articles on the world's time stations
- ❑ $11.00 **FM Atlas and Station Directory**, 12th edition by Bruce Elving, location/freq lists, maps
- ❑ $20.00 **AM Radio Log**, 9th edition, by National Radio Club lists North American AM broadcast stations; lots of info
- ❑ $25.00 **Aeronautical Communications Handbook**, HF edition by ODXA's Bob Evans - 260 pages, THE authoritative reference on aeronautical listening
- ❑ $17.00 +T **Haruteq Scanner Guide**, Ontario Edition - extensive listings of Ontario VHF and UHF frequencies for scanner monitors

REFERENCES - Books for the Beginner and the Pro

❑	$20.00	**Shortwave Listening Handbook** by Harry Helms - an excellent book for the beginning SWL; covers antennas, receivers, propagation, QSLing, etc.
❑	$8.00	**So You Bought A Shortwave Radio** by Gerry L. Dexter - brief, introductory book for the beginner
❑	$24.00	**Proceedings 1989** by Fine Tuning - hundreds of pages, all articles and reviews; highly recommended for those ready to advance their knowledge
❑	$13.00	**Shortwave Propagation Handbook** by Jacobs and Cohen - 150 pages; an excellent guide to understanding how radio siganls propagate around the world
❑	$6.00	**The World Below 500 kHz**, by Peter Caron - 64 page guide to listening to long-wave band
❑	$9.00	**Shortwave Receivers Past and Present** - 104 pages of old and recent receivers profiled by Fred Osterman
❑	$20.00	**Easy-Up Antennas for Radio Listeners and Hams**, by Ed Noll - an excellent book on antennas, with photographs, diagrams and full descriptions
❑	$25.00	**Sunrise-Sunset Map Set**, Great Circle Map set, by Cedric Marshall - maps are centred on Toronto
❑	$15.00	**Language Lab** - guidee to writing reception reports; includes lists of words and phrases. Available in ❒ Spanish, ❒ Portuguese, ❒ French (please check)
❑	$6.00	**Frequency Spectrum Chart** - frequency spectrum allocations shown on a coloured, 16"x20" wall chart
❑	$6.00 +T	**Sounds of Shortwave** - cassette tape by Bob Grove. Side 1 covers types of sounds we hear on SW, Side 2 looks at receivers, antennas, accessories
❑	$23.00	**The DX Edge** - a very helpful slide-rule device showing areas of worldin daylight/ darkness year round; helps you understand how you hear DX

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Ontario sales tax applies to Ontario residents only for items marked "T". Shipping: first item $2.50 in North America, additional items $1.50 North America each. For overseas orders write for prices. Special for Aeronautical Communications Handbook: $3 Cdn or US for shipping. Minimum order $5.00. For U.S. dollar payments: US$1=Cdn$1.18. Send orders and payments in Canadian or U.S. dollars to ODXA, Box 161, Stn. A, Willowdale, Ontario M2N 5S8.

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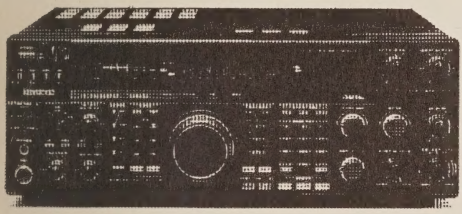

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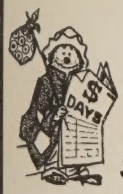

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